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Truss

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CANADIAN STEEL CASEMENTS



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Canadian Steel Casements

Specification

Steel Sections

All steel sections used in the manufacture of Canadian Casements are of the best quality, free from rust, scale and other defects, and produced from our own rolls, straightened at the mills by cold rolling and therefore true to shape and size. The sections are designed for double contacts at all sides without screwed-on fillets or strips, thus ensuring an excellent weather tight casement. The glass rebates sight and line true in all types of casements and fixed frames.

Corners of Frames

Corners of both fixed and opening frames are cut off to a true mitre and welded solid by an improved electric process, afterwards ground and cleaned off true to shape.

Hinges

Casements hinged at sides, top or bottom, are fitted with extruded section bronze hinges with hard steel pins and screwed to frames from inside the steel sections so that when the casements are closed the hinges cannot be removed.

Pivots

Casements pivoted at side, or top and bottom, are provided with hard steel studs working in special bronze bearings. The vertically pivoted casements have a hard steel frictionless ball ended stud at bottom.

Condensation

An extruded bronze channel section condensation gutter with suitable drain holes is provided at sill of opening frame of all casements. (Strike out this clause if gutter is not desired).

Weather Bars

An iron weather bar is provided at head of all side hinged open out, folding open out, vertically pivoted and top hinged casements. An extruded bronze section weather bar is provided at sill of all side hinged open in, vertically pivoted and bottom hinged casements.

Mullions

Mullion and transom bars will be of No. 65 or No. 10 sections unless other special details are shown on drawings submitted with quotation.

Framing

Framing for windbreak and plaster or wood finish, see details Sheet 8, will be provided of sections No. 7, No. 8, No. 9 and No. 13, or other stock angle, tee, or channel sections.

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of Canada, Limited
Walkerville, Ontario



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Canadian Steel Casements

Specification—Continued

Muntins

Muntins of No. 68 sections for small panes in casements of medium size and stock $1 \times 1 \times \frac{3}{16}$ Tee for the larger casements. Muntins are spot welded at intersections.

Glazing

Casements are arranged to glaze inside (a) with putty, we providing spring wire glazing clips only. (b) Solid section steel glazing stops secured with countersunk head bronze screws. (c) Hard wood glazing stops.

NOTE—Our standard practice is to glaze inside but preparation for outside glaze can be made, if desired, without extra cost.

Steel glazing stops in casements with a large number of panes add considerably to the cost and we suggest where putty glaze is not desired the use of hard wood stops secured by brass screws. We will supply the wood stops or they may be provided by the carpenter contractor in which case we prepare for and provide the necessary brass screws.

Polished plate glass $\frac{1}{4}$ " thick should be used for casements without muntins.

Painting

Casements will be painted two coats of best quality grey paint before leaving the works; this paint providing a suitable ground for the application of an air drying, hard setting enamel finish after the casements are erected and glazed. Baked on enamel is not good practice for casement work and would probably get chipped off in transit or when being installed and glazed, and no touching up can bring the surface even and smooth.

Rebates in Cut Stone or Wood Frames

Framing as above is not necessary where casements set in rebates of cut stone or wood frames. The rebates should be $\frac{3}{8} \times 1 \frac{7}{8}$; outside all around for outward opening casements and inside for inward opening except at sill which should be outside rebate in all cases.

We recommend the preparation of rebates as above but this is not absolutely essential.

Workmanship and Finish

The manufacture of steel casements and the necessary hardware for same calls for expert workmanship and machinery designed specially for this purpose. The various operations are carried out with precision and superintended by an expert with 20 years' experience.

The hardware is mechanically designed. All parts being substantial and well proportioned, and whilst our artistic abilities cannot be given full scope owing to the limitations in cost within which we feel ourselves bound to conform, we believe our designs, although unpretentious, are sufficient to enhance the architectural appearance and finish of the building.

Although we have shown many various designs and details of construction, we are satisfied that the manipulation and combination of our sections has not been exhausted and we welcome any scheme that may be suggested to us by architects and will gladly figure on same for whatever type or design of window may be desired.

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Canadian Steel Casements

Specification—Continued

Hardware

Hardware fittings to be of solid cast bronze (a) polished; (b) dull natural color finish (c) statuary bronze finish not lacquered or (d) painted malleable iron.

Casements side hinged open in or out or pivoted vertically will have spur handles of Nos. 50, 51, 52 or 55 design. Casements 4 ft. 9 in. and over will have two point fastening. Stays (adjusters) of non-projecting sliding or peg stay type (see illustrations sheet 26).

French folding casements and doors open in or out will have our special design concealed sliding (Cremorne) bolt locking casement at top, bottom and centre operated from inside only with handle of No. 55 design and stays as above to each leaf. (See illustration sheet 25).

Bottom hinged casements will have spring catch for cords or window stick and concealed brass side arms (see illustration sheet 27).

Side pivoted casements will have spring catch, pulley and eye for cords (see illustration sheet 27).

NOTE—Our spring catches are of special design suited to our sections; do not project below the sight line of casements and arranged to catch behind the leg of fixed frame, thus avoiding the need for catch plate which frequently calls for cutting away of plaster at head to allow of satisfactory working.

Top hinged casements are provided with screw operator (see illustration sheet 9), which will admit of varying degrees of ventilation.

NOTE—Bottom hinged or side pivoted casements may also be fitted with screw operator if so specified and included in quotation.

Hardware and parts of same not practical made up in malleable iron will be furnished in brass or bronze painted where cheaper quality is called for.

All hardware fittings are our own manufacture and of the highest quality, superior to the standard hardware frequently supplied for casement work.

Special hardware will be designed and furnished to architect's requirements if desired.

All quotations are based on using No. 50 design. Handle on plain plate unless other designs are specified. No. 50 design is shown applied to inward opening casement, all others to outward opening. The spur of handle and catch plates are beveled to draw the opening frame tight against the fixed frame. Handles are mounted on bronze triangle plate with bronze stud. The boss of handle is counter bored and contains strong auxiliary spring to prevent the handle dropping after the casement is opened, thus avoiding the possibility of damage to handle or casement when closing.

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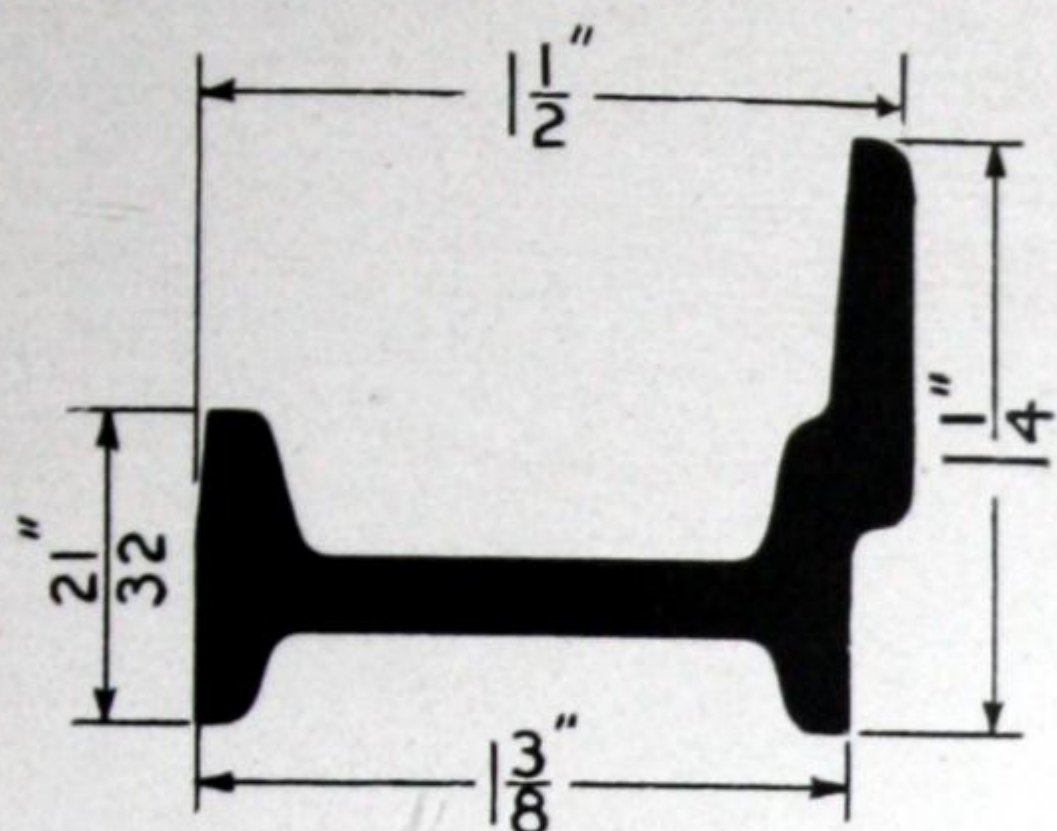
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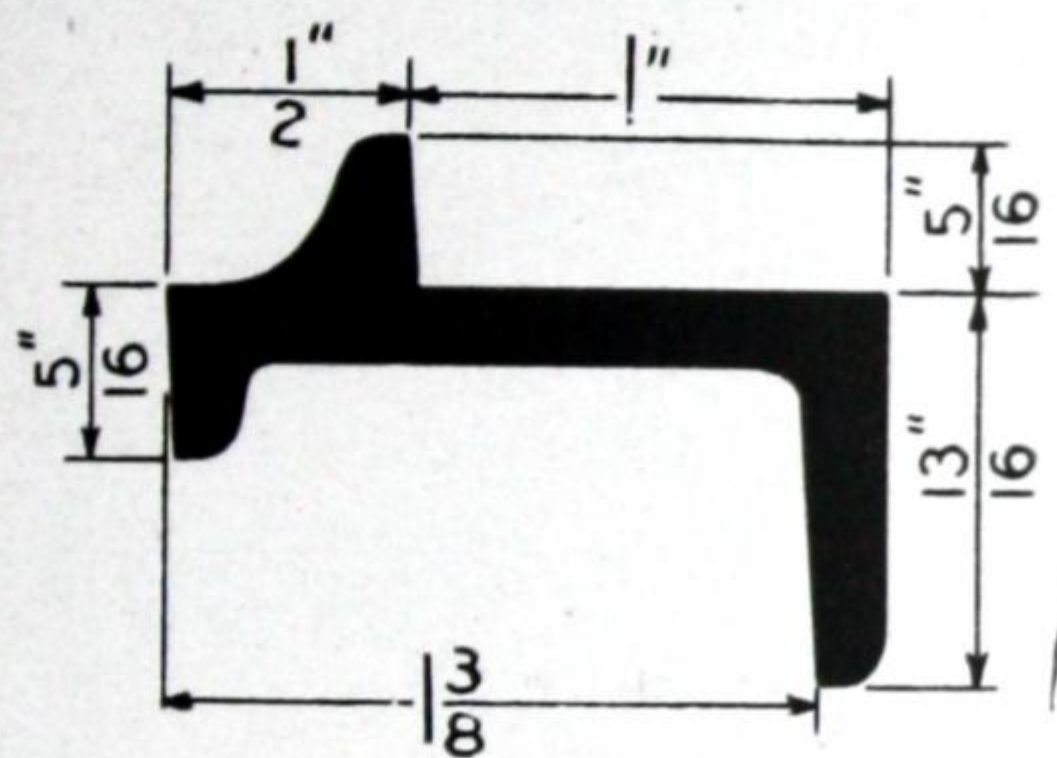
Canadian Steel Casements

Full Size Sections

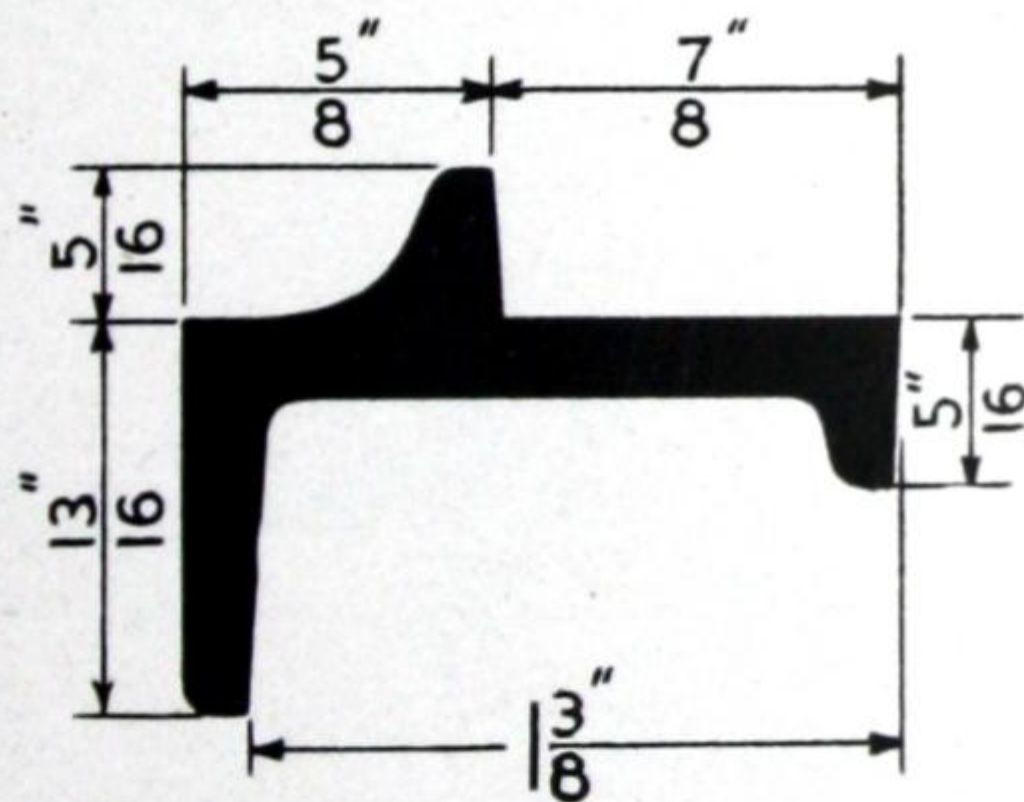
Medium



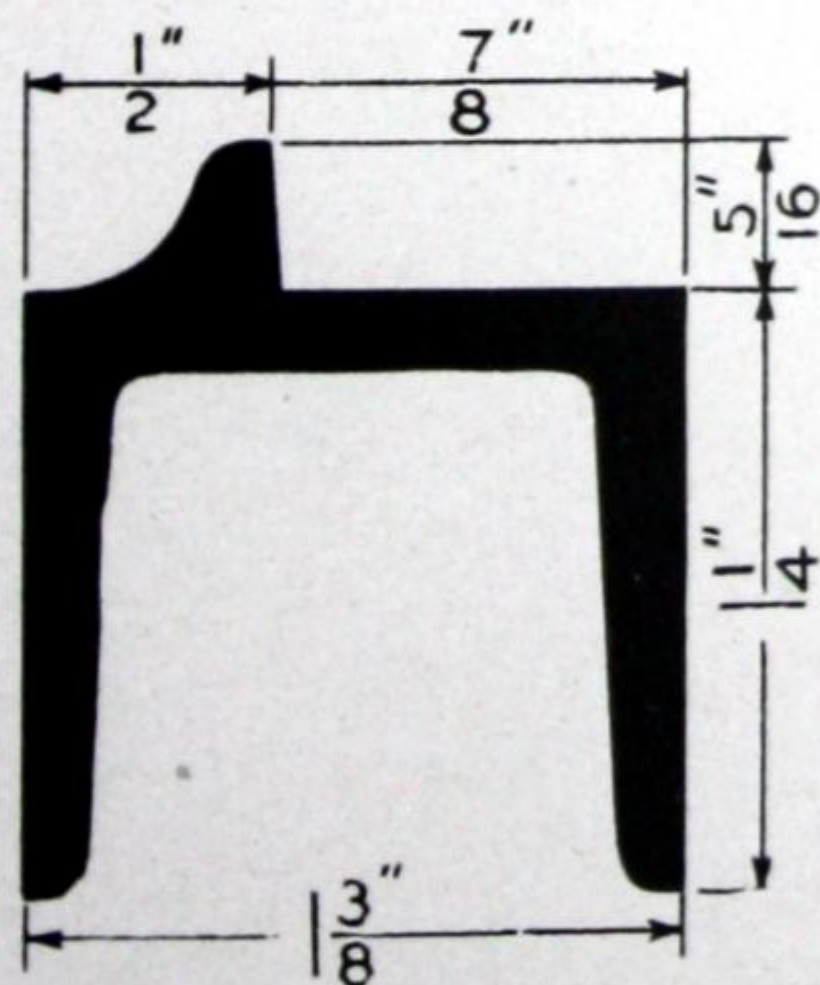
SECTION No. 61



SECTION No. 62



SECTION No. 63



SECTION No. 64

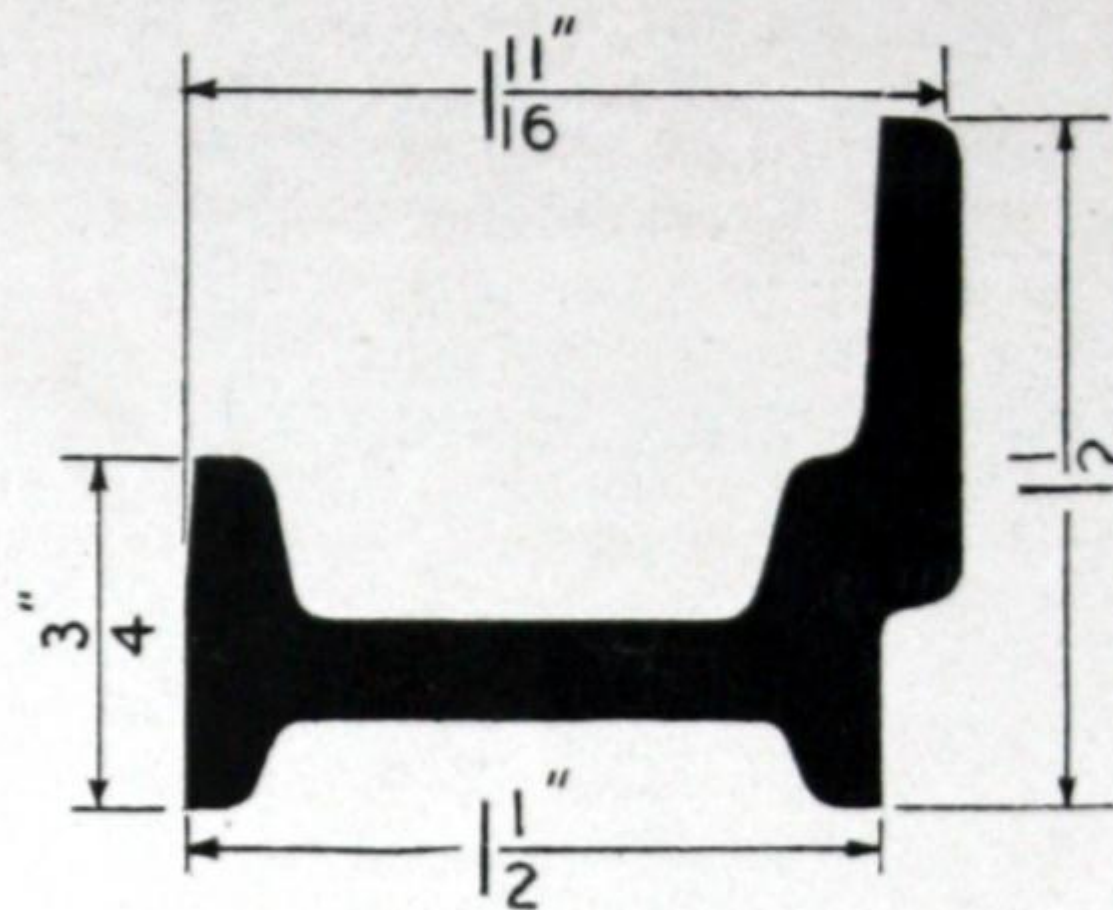
Fixed frames for all types of opening casements.

Opening frames for open in casements glaze in. Use No. 63 or No. 73 Section for open in glaze out

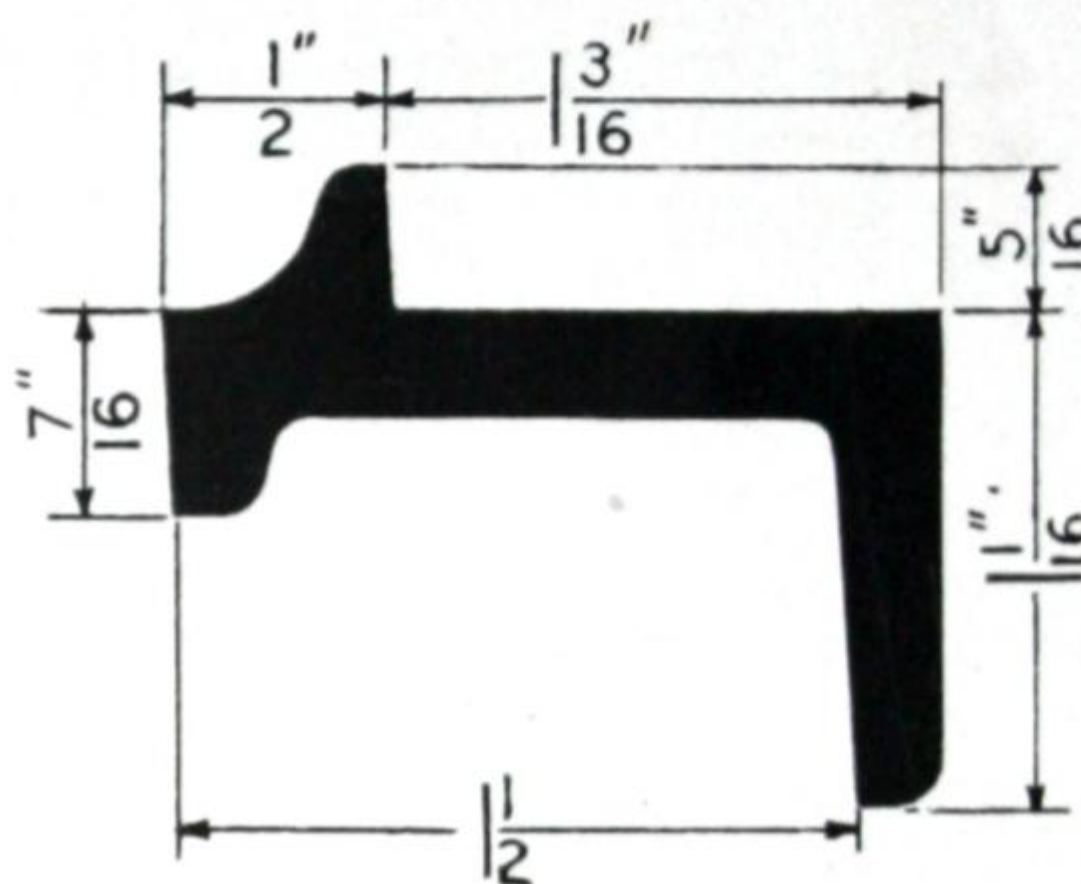
Opening frames for open out casements glaze inside. Use No. 62 or No. 72 Section for open out glaze out

Stationary casement

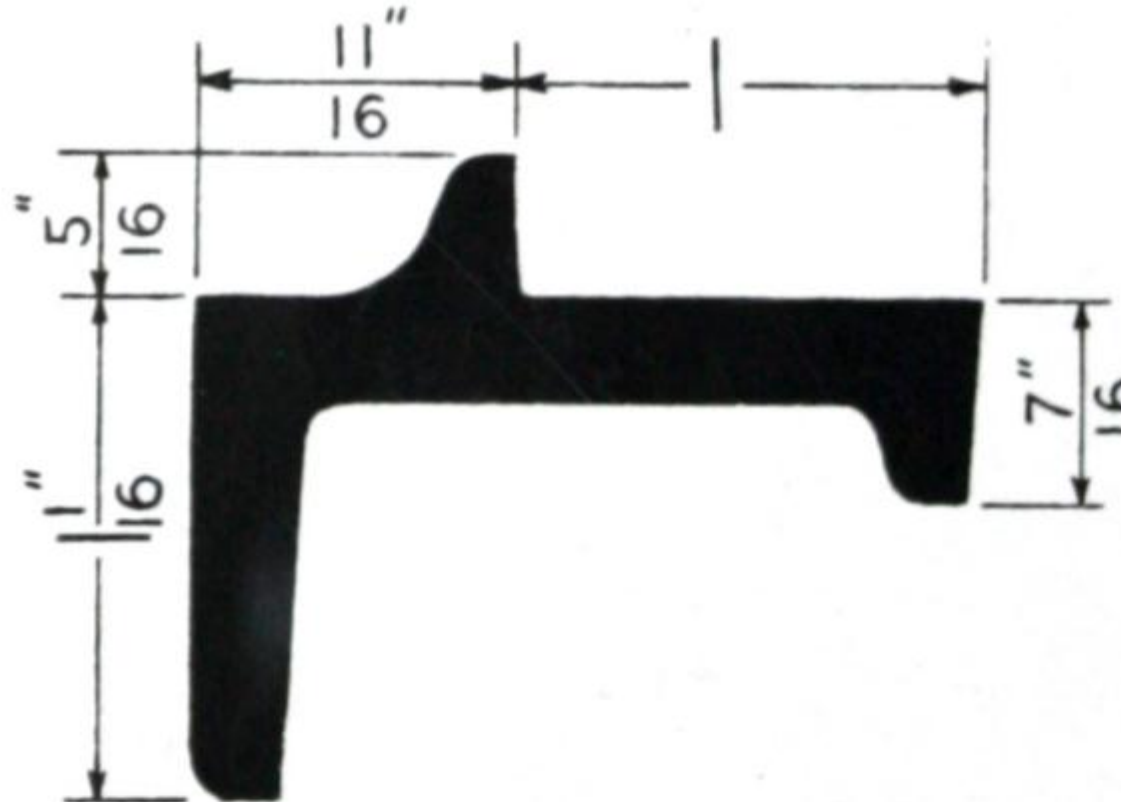
Heavy



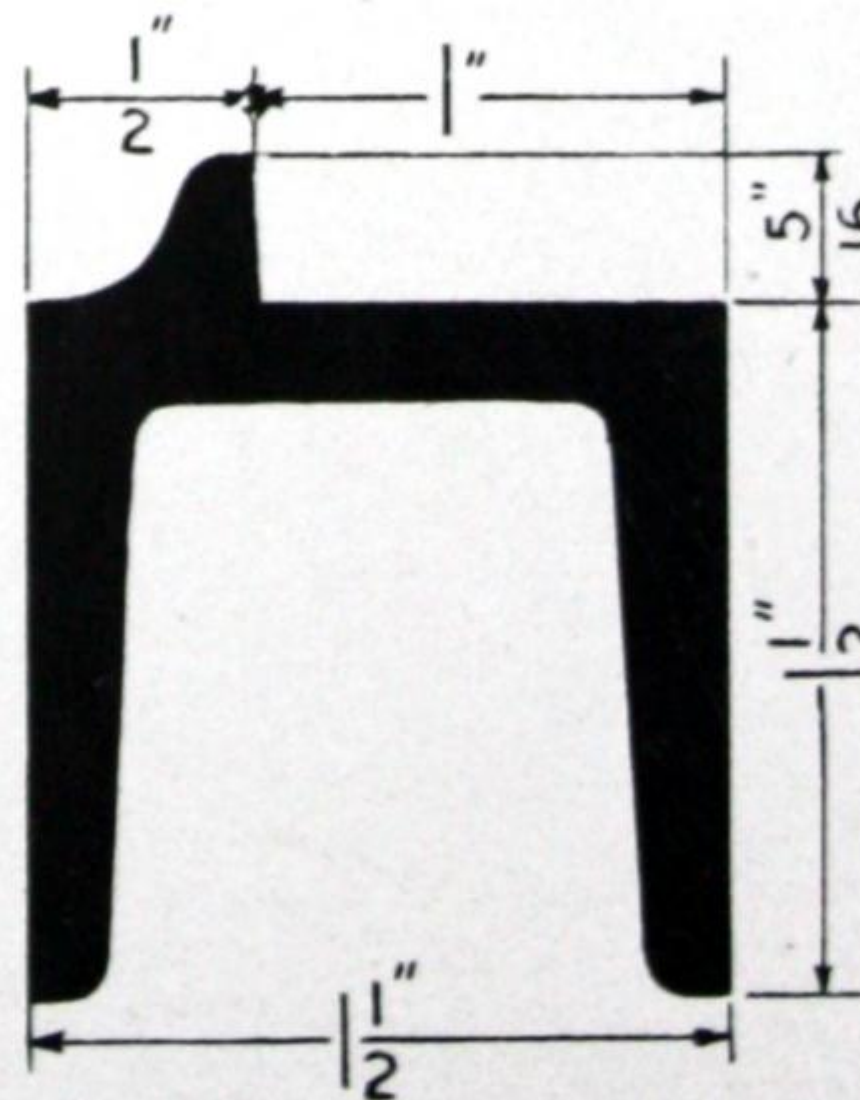
SECTION No. 71



SECTION No. 72



SECTION No. 73



SECTION No. 74

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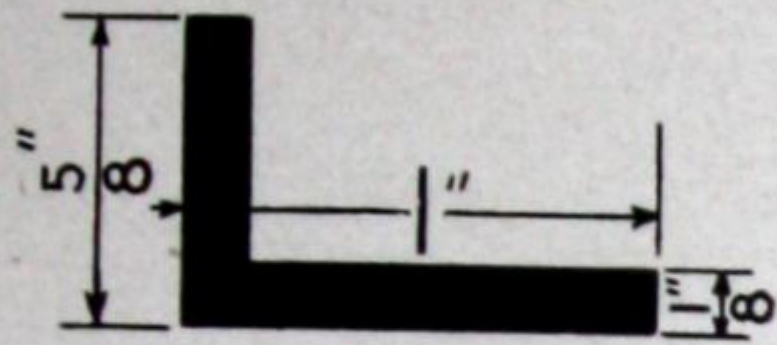
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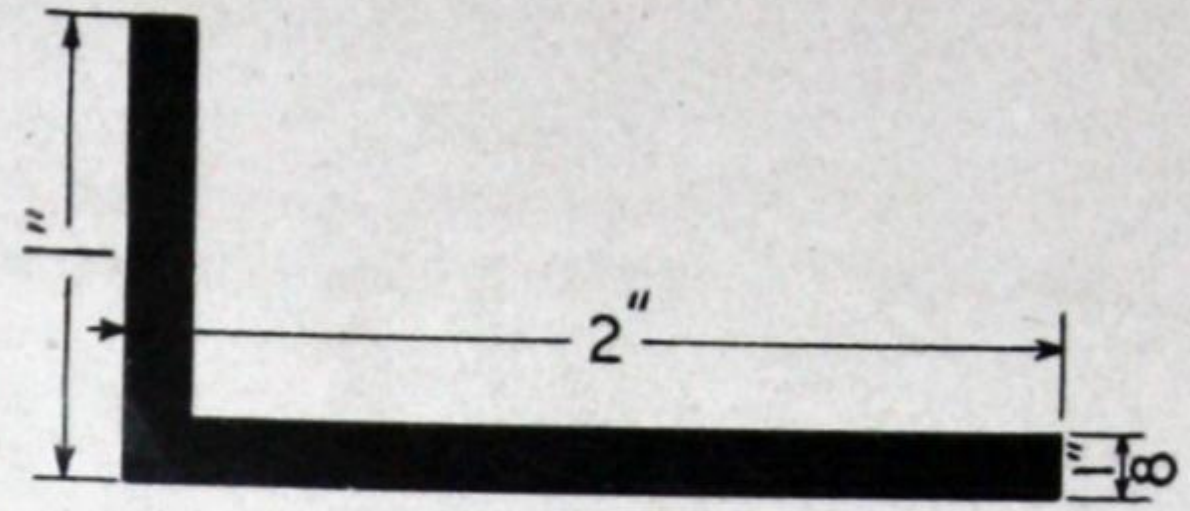
Canadian Steel Casements

Full Size Sections

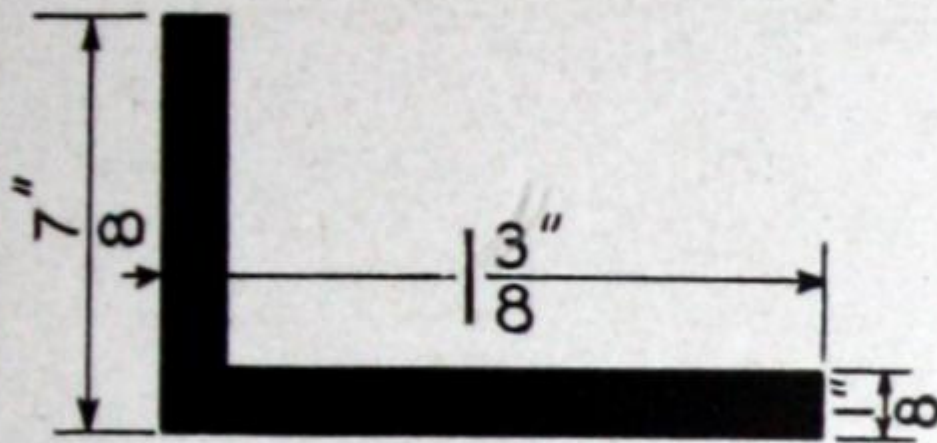


SECTION No. 8

Windbreak angles attached to No. 61 section where casements are set in joint of stone or brick openings. See details on sheet 8.

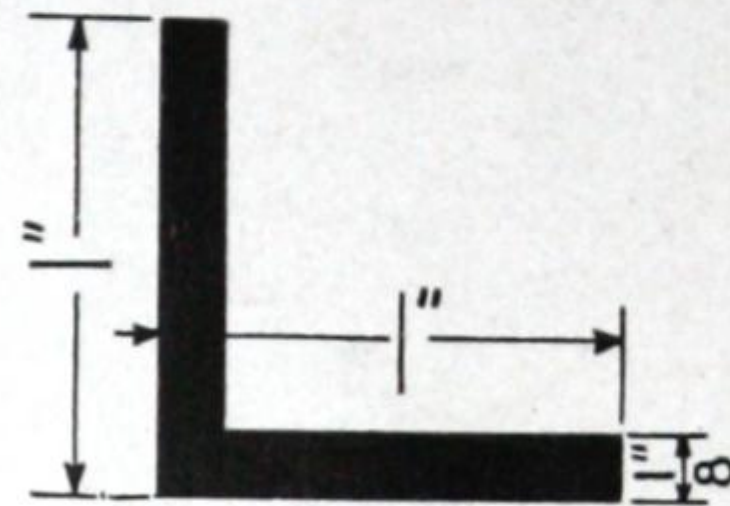


SECTION No. 13

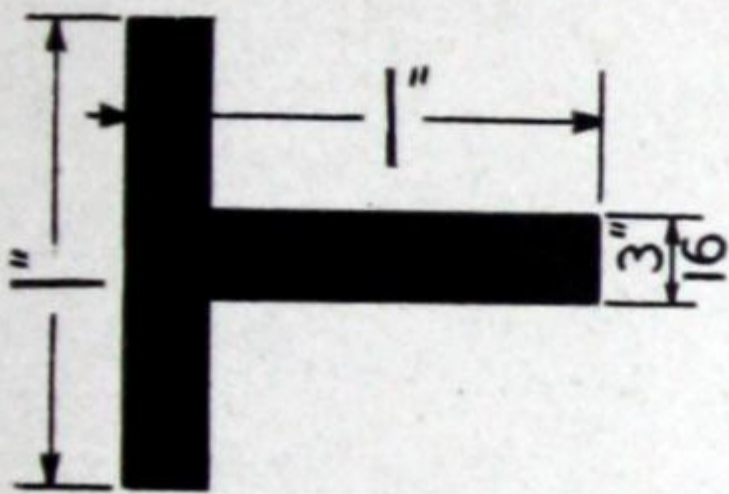


SECTION No. 9

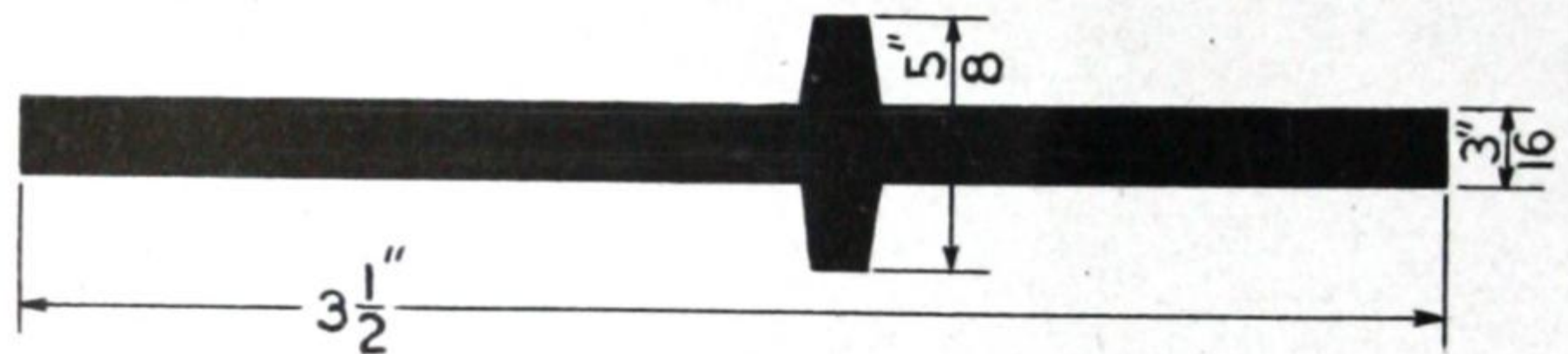
NOTE: Where it is necessary to build in a heavy steel frame, as masonry proceeds, stock sections of 2 x 1 x 3/16 L or 2 x 1 channel may be used.



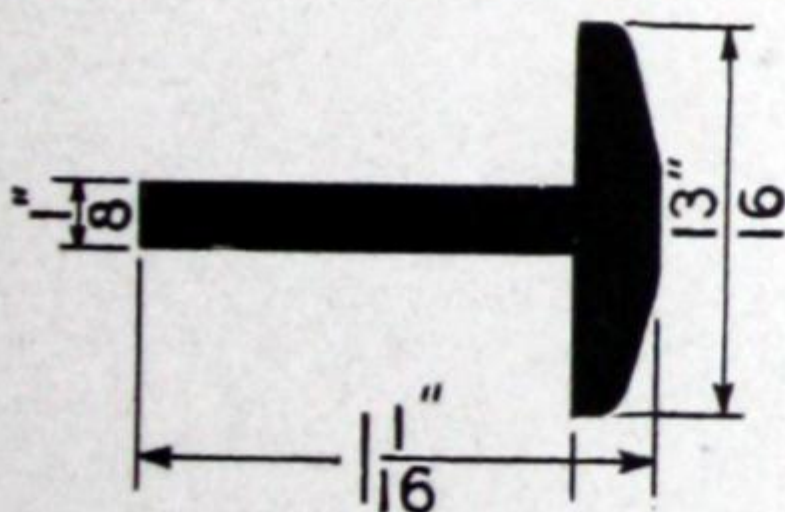
SECTION No. 7



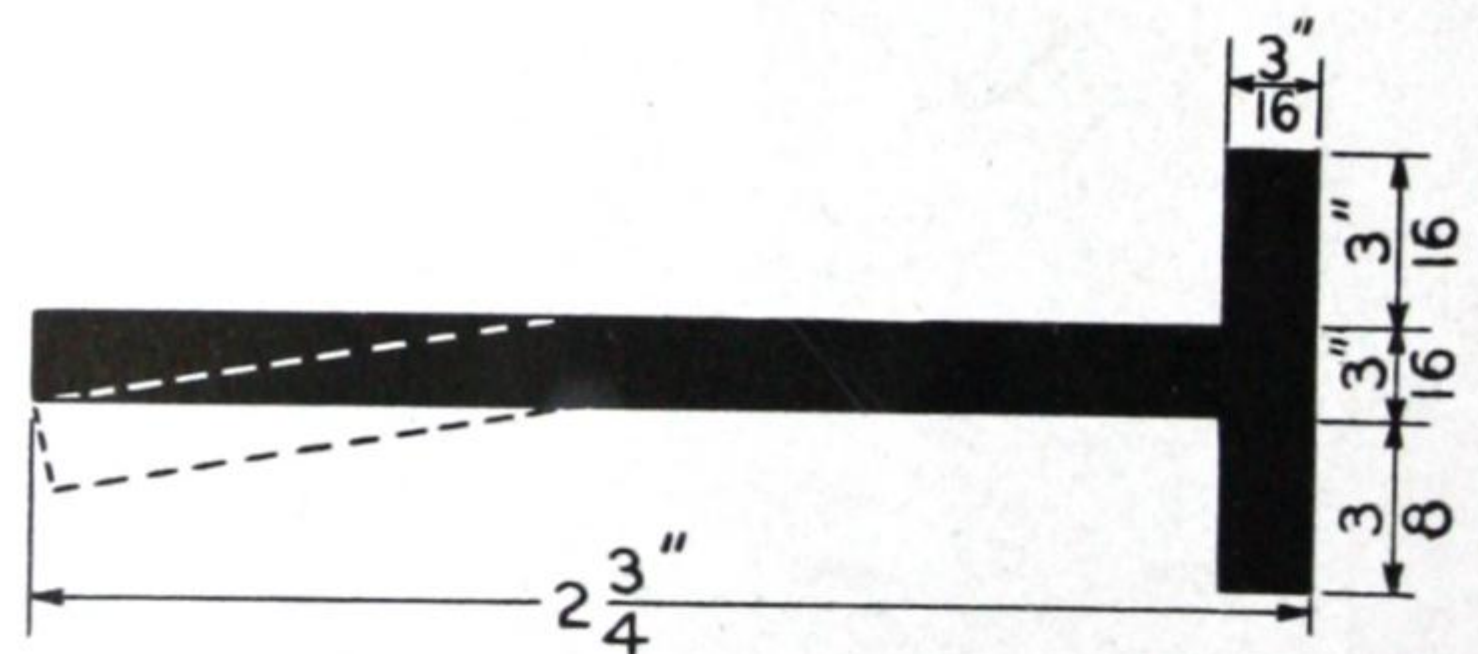
SECTION No. 69
Muntin bar



SECTION No. 10
Mullion or transom bar



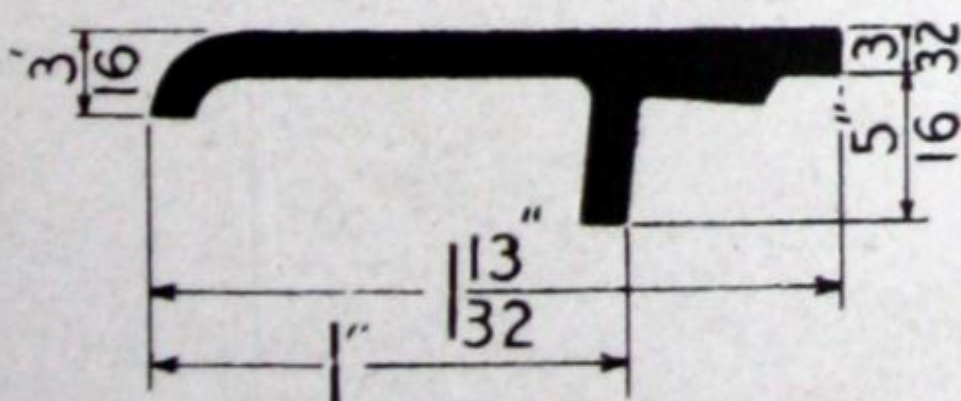
SECTION No. 68
Muntin bar



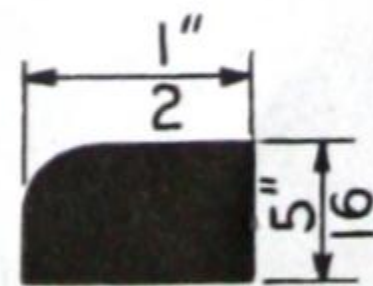
SECTION No. 65

Mullion or transom bar.

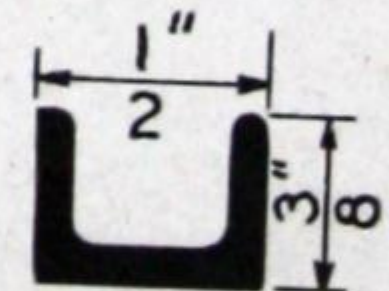
NOTE: Section set to dotted lines when used as transom.



Bronze weather bar for side hinged open in. Bottom hinged and vertically pivoted casements.



Section No. 66
Steel glazing stop.



Bronze condensation gutter

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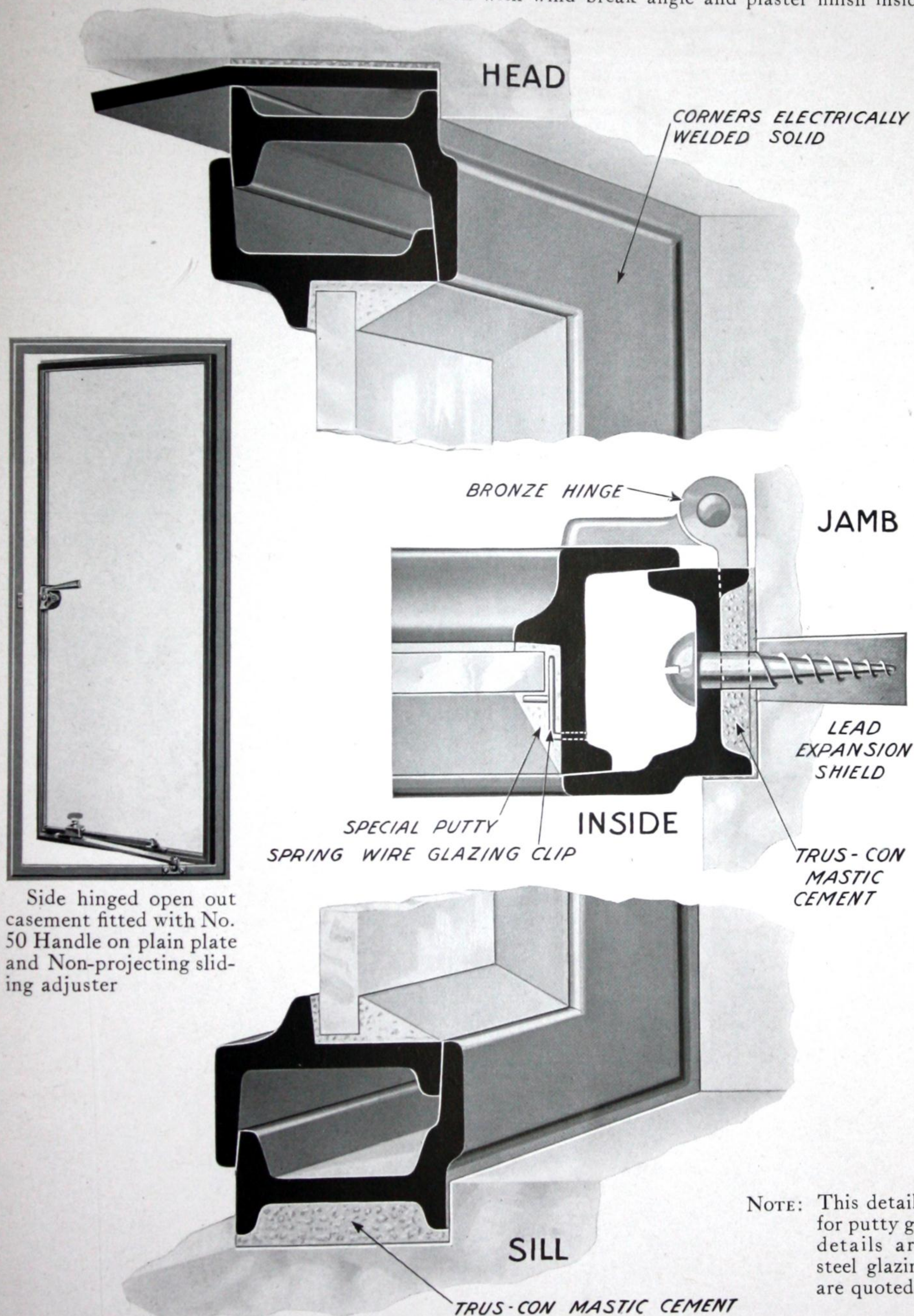
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Side Hinged Outward Opening Casements

Details show casement set in $\frac{3}{8}$ " cut stone rebate. See details inward opening casement for method of fixing to stone or brick with wind break angle and plaster finish inside



Sections accurately shown full size.
See specification sheet 2.

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Inward Opening Side Hinged Casement

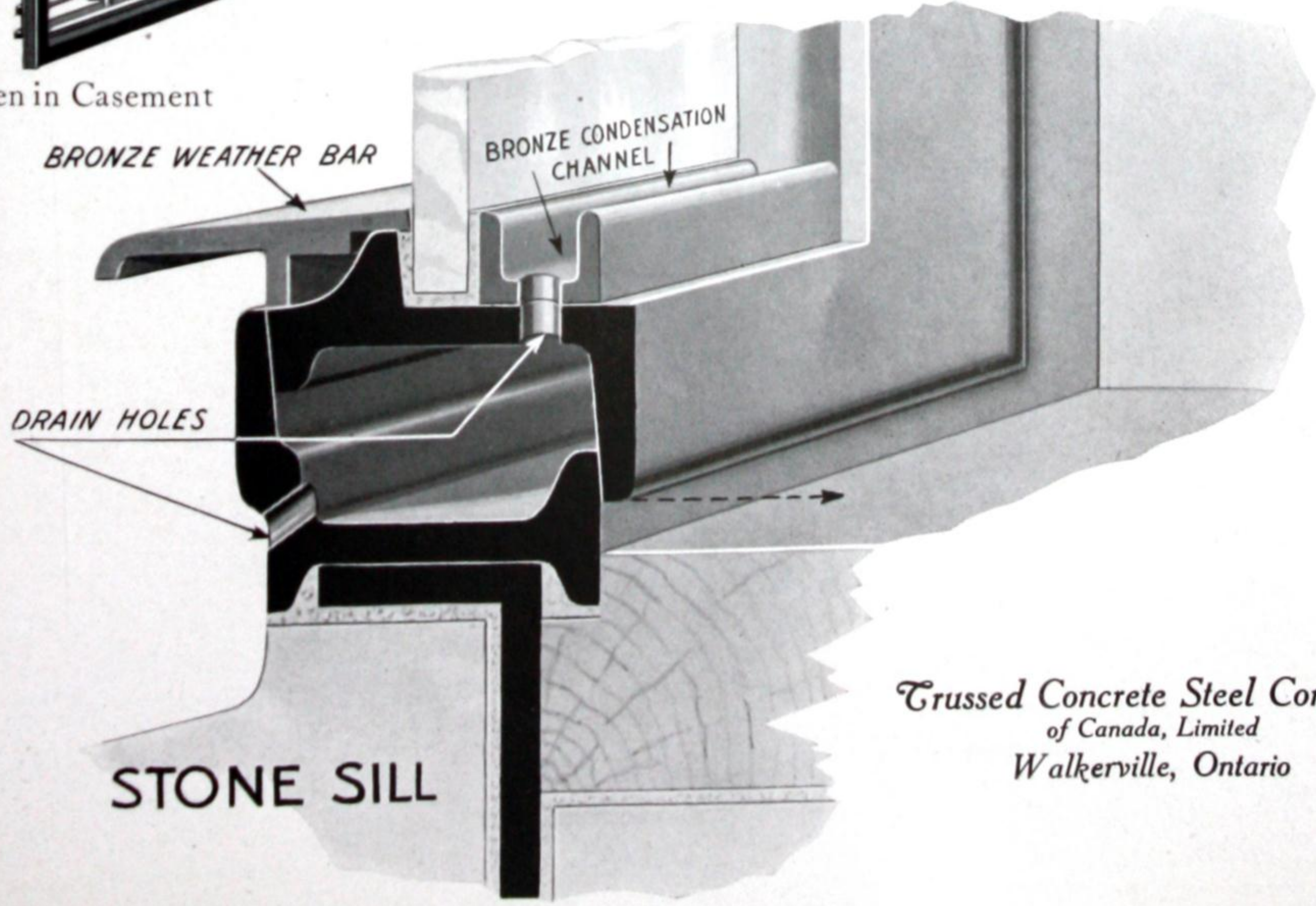
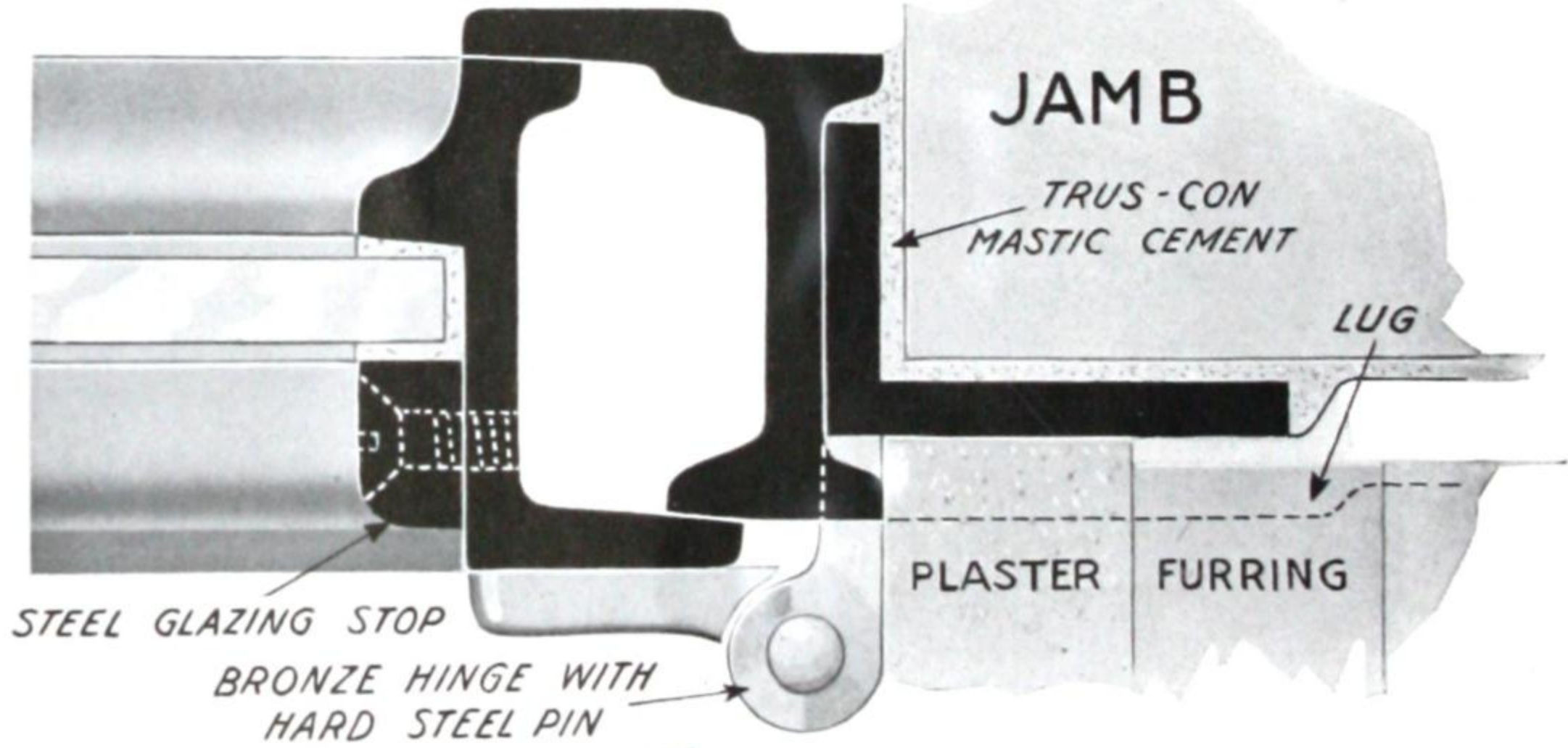
HEAD

SOLID ELECTRICALLY
WELDED CORNERS

Sections accur-
ately shown full size.
See specification
sheet 2.



Open in Casement



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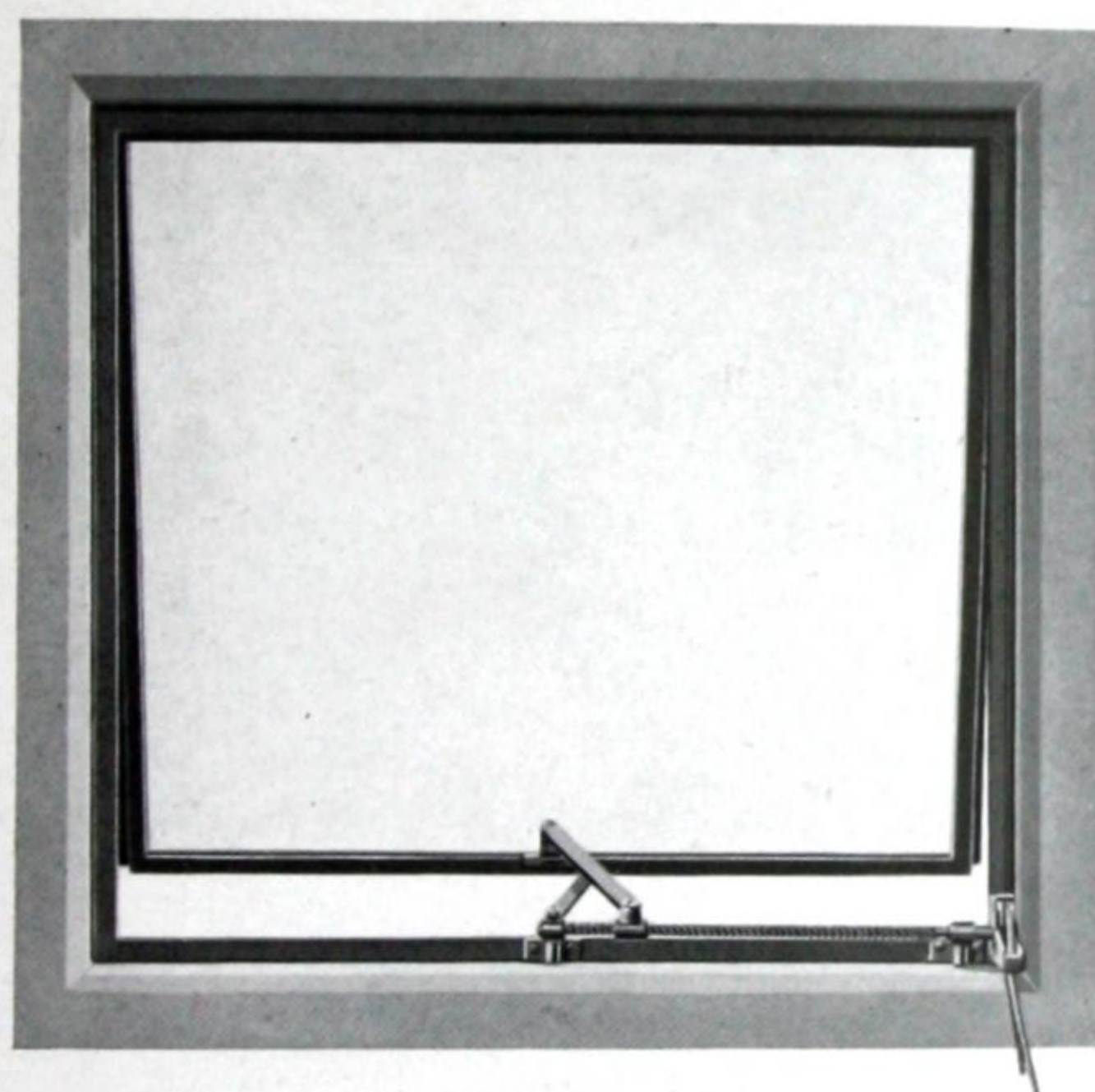
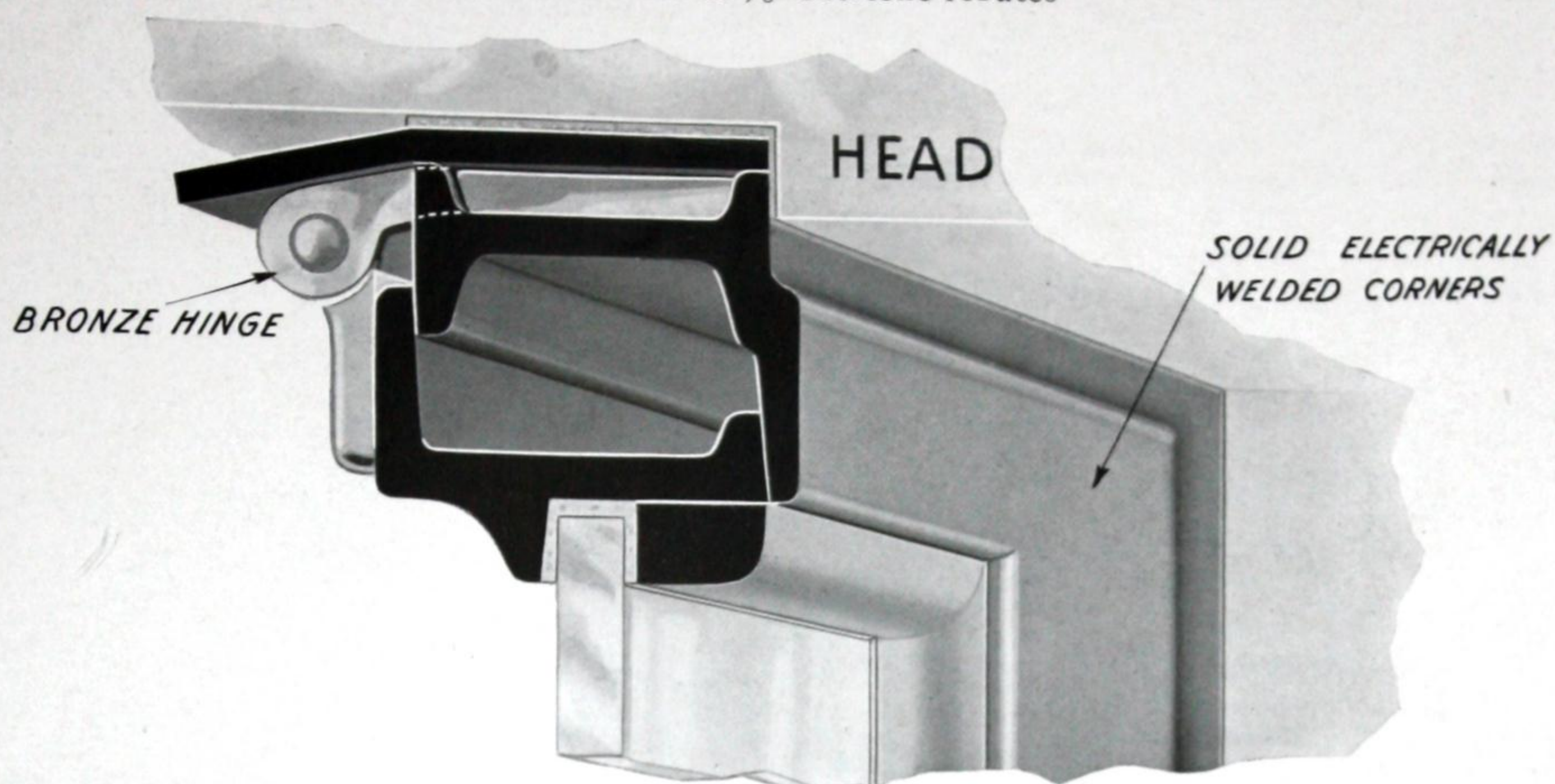
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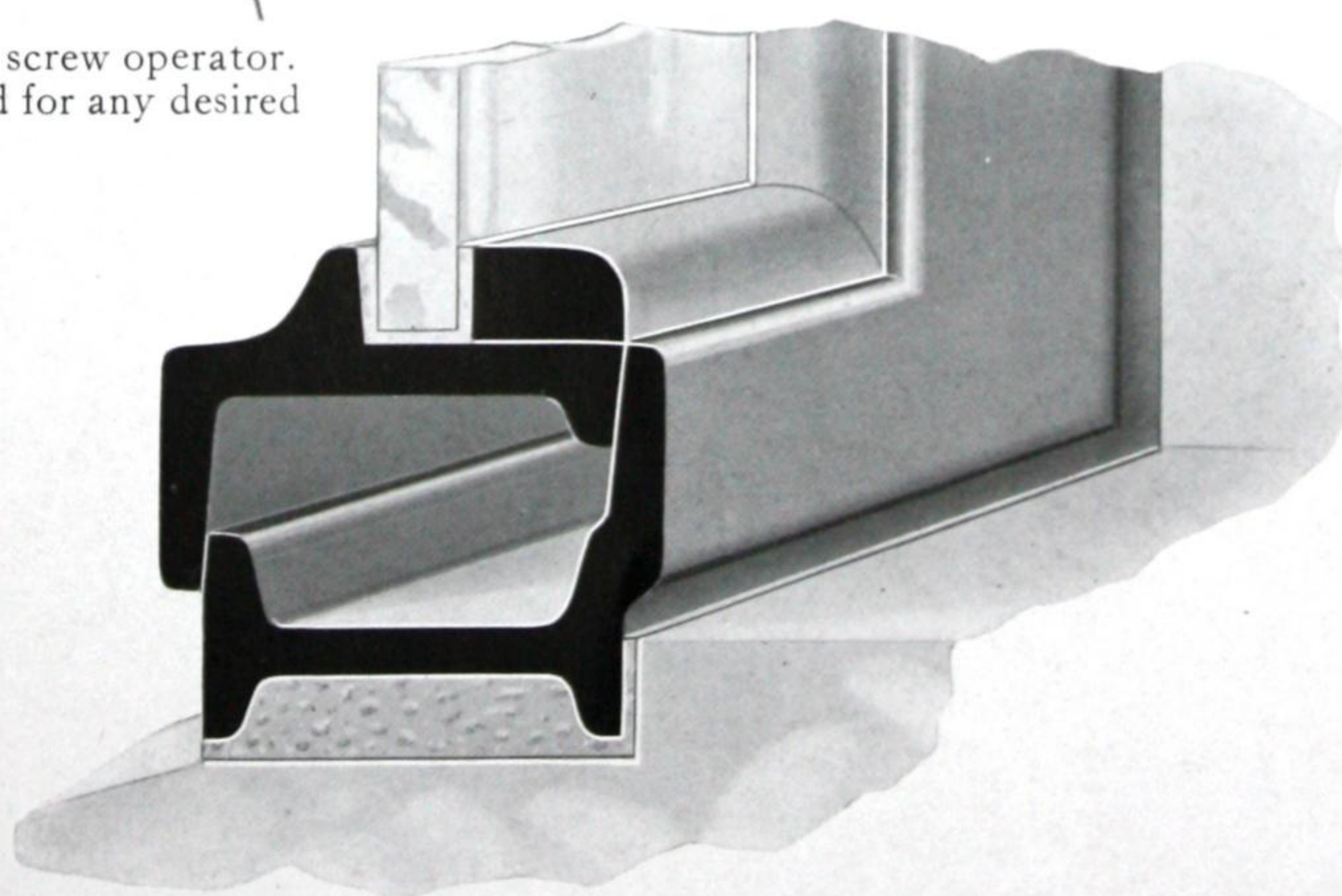
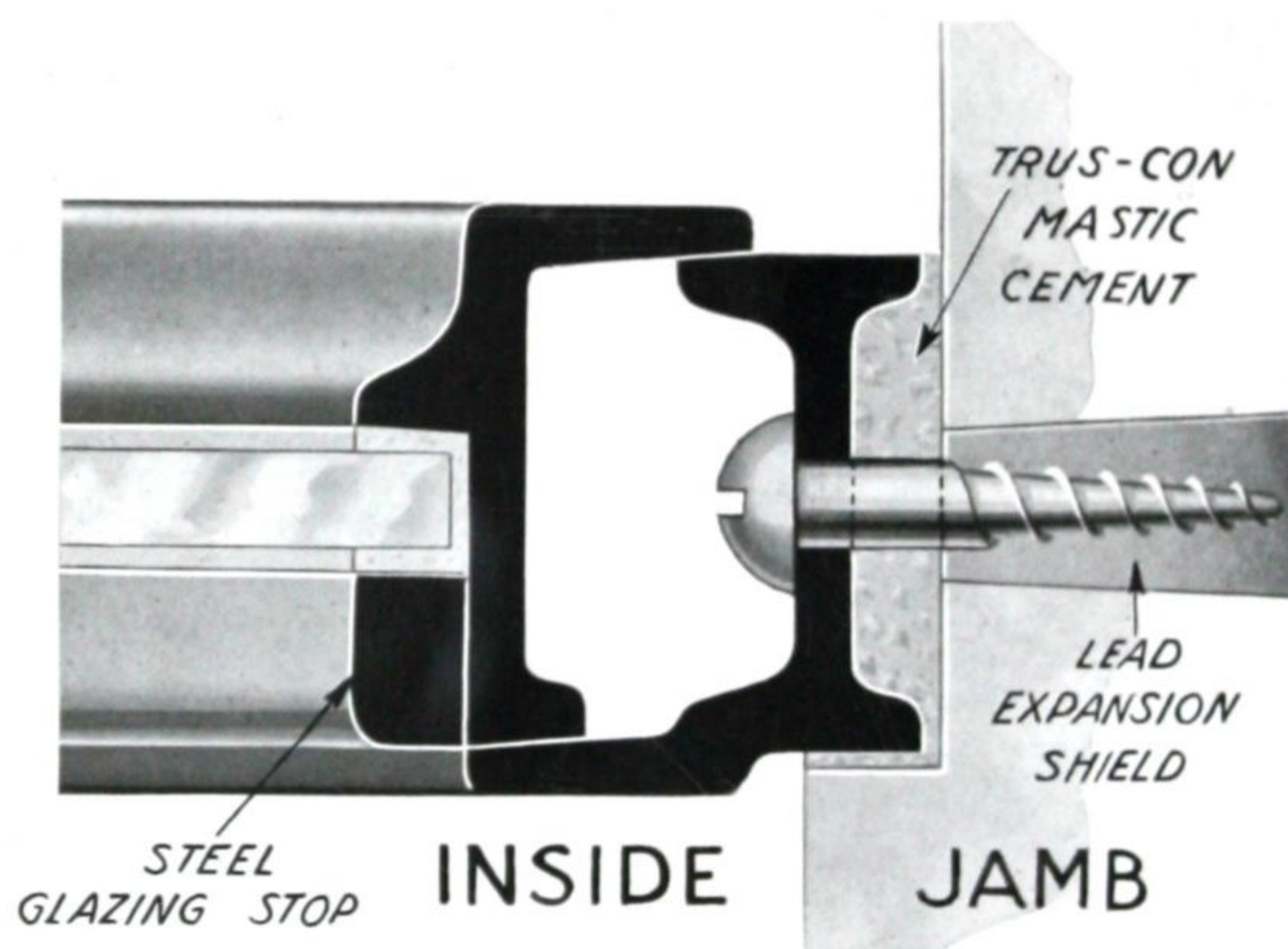
Canadian Steel Casements

Top Hinged Outward Opening Casements

Details show casement set in $\frac{3}{8}$ " cutstone rebates



Top hinged casement with screw operator. Note casement can be opened for any desired amount of ventilation.



SILL OR TRANSOM

Sections accurately shown full size. See specification sheet 2.

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Information Required with Orders and Inquiries

It is essential to enable us to give good and efficient service that we have the following particulars with all inquiries and orders.

1. Should a general scheme and advice as to best type and design of casements to use in any particular building be desired, architects are requested to send plans and elevations of the building.

2. Full size details of (proposed) masonry, or other material, and inside finish, at head, sill and jambs.

3. Quantity and sketch elevations of windows, showing:

(a) Casements to open, and type of same, i. e., open in or out, side hinged, vertically pivoted, horizontally pivoted, top or bottom hinged, French folding casements without fixed meeting rail, ditto with fixed meeting rail.

(b) Stationary lights.

4. If muntins bars of 68 or 69 section are required, show number of panes on sketch.

5. State if putty glaze, in which case we provide spring wire clips only, or steel or wood stops.

NOTE—Our standard practice is to glaze inside. Outside glaze can be arranged if required without extra cost, by substituting section 62 and 63, according to whether casements open in or out.

6. With orders it is necessary to know the thickness of glass to be used, so that we may drill holes for clips, or set the stops to suit. We strongly advise using $\frac{1}{4}$ " thick polished plate glass where muntins are not required.

7. Accurate dimensions of openings should accompany orders, and detail showing points to which measurements are taken.

8. State height floor to sill in order that we may fix handles at suitable position.

9. Indicate on sketch the side casements are to be hinged, and if elevation is looking from inside or out.

NOTE—A right handed casement is hinged on the right hand side looking from within.

10. ERECTION AND FIXING HARDWARE. State if this is to be included in estimate.

11. State if casements are to be built in, or set in the openings after same are built, also if this may be done after plastering is finished.

12. QUALITY AND FINISH OF HARDWARE REQUIRED: (a) Cast bronze polished finish. (b) Cast bronze dull finish, natural color. (c) Cast bronze statuary bronze finish, without the aid of lacquer or other chemicals. (d) Malleable iron painted black.

13. HANDLES. Sheet No. 23. Design number 50, 51, 52 or 55 for side hinged, open in or out, and vertically pivoted casements.

NOTE—Any design of handle may be mounted on plain or ornamental plate.

14. STAYS (ADJUSTERS). Sheet No. 26. For side hinged open in or out and vertically pivoted casements. State if non-projecting sliding, or peg stay are required.

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15. FRENCH FOLDING CASEMENTS. Sheet No. 25. Without fixed meeting rail are fitted with concealed sliding (Cremorne) bolt, operated by handle of No. 55 design, and locking casements at top, bottom, and centre.

16. TOP HINGED CASEMENTS. Sheet No. 9. May be fitted with peg stay if within reach, otherwise our special design screw opener, operated by cords, must be used.

17. BOTTOM HINGED CASEMENTS. Sheet No. 27. Are provided with brass concealed side arms and spring catch for cords or window stick or screw opener as above.

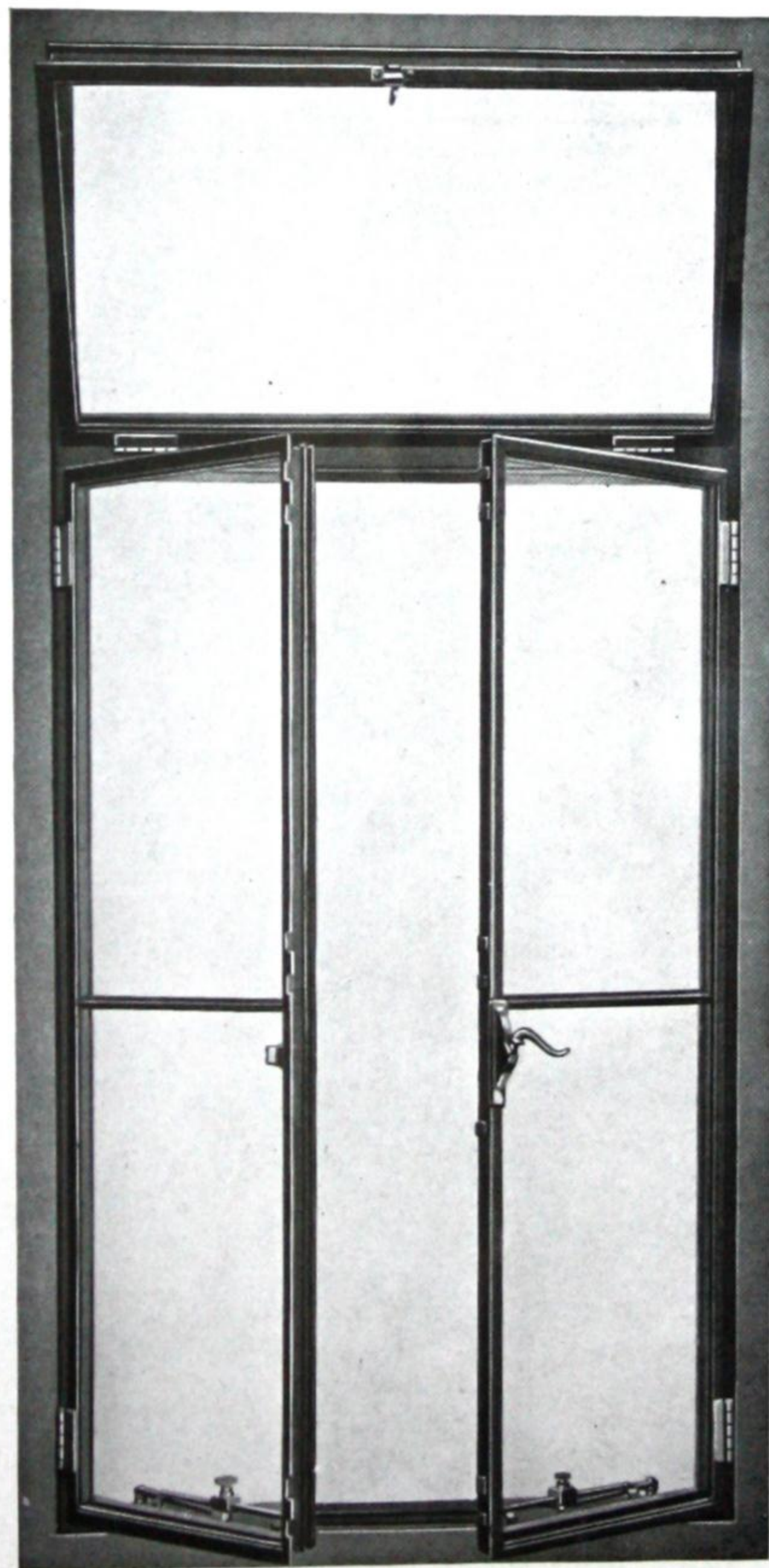
18. HORIZONTAL CENTRE HUNG CASEMENTS. Sheet No. 27. Are provided with spring catch pulley and cleats for cords, or may be fitted with screw opener as above.

NOTE—Where cords operating screw openers are not desired, we can supply polished bronze gear boxes, and steel vertical rods, same being connected up with horizontal screw.

19. Give complete shipping instructions with orders.

French Folding Open in Casements with Bottom Hinged Casement Above Transom

Suitable for Office Building



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French Folding Steel Casement Doors (Inward Opening)

With stationary transom Light over. Kick plate of 1/8" double steel plate. Concealed sliding (Cremorne) bolt locking casements at top bottom and centre, and door holders.



See sheet 13 for full size details of sill and jamb.
See sheet 16 for full size details of this transom, Type G.

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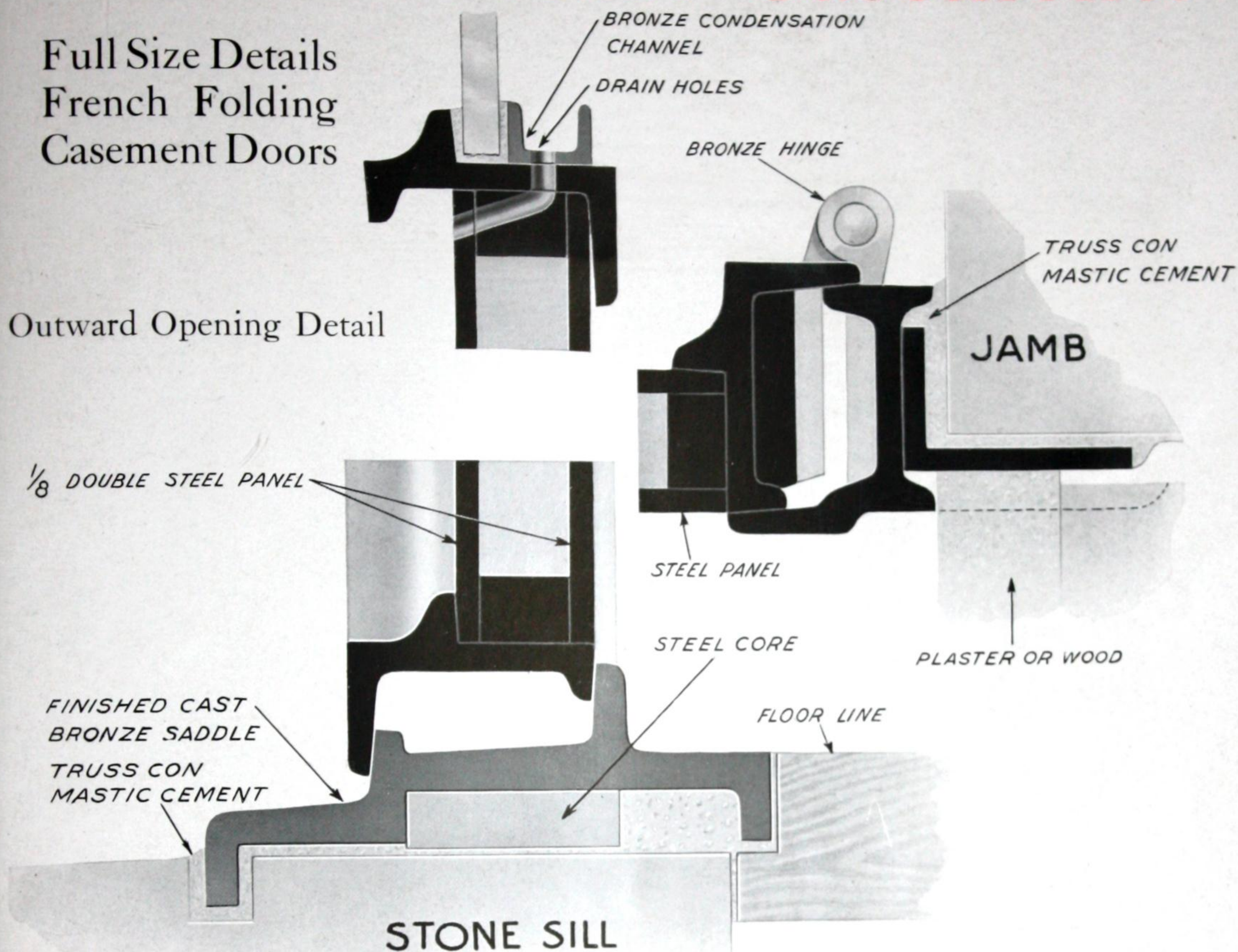
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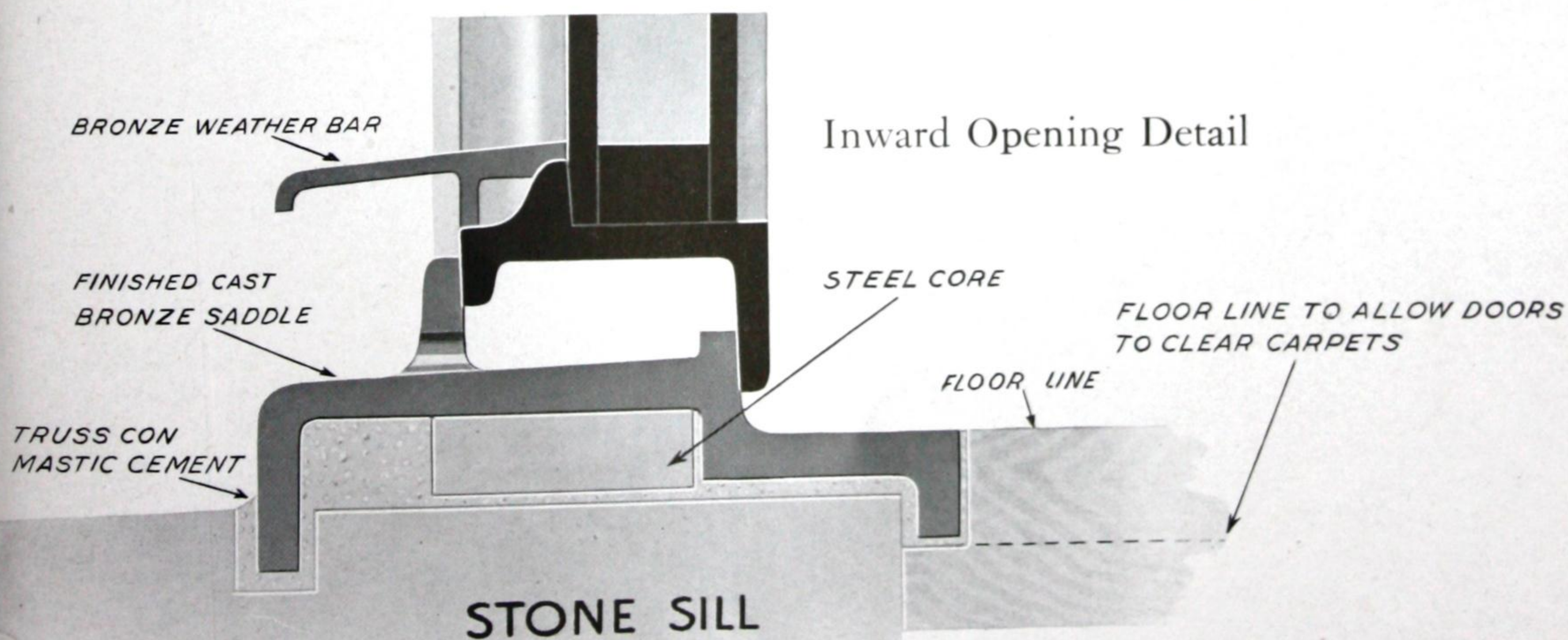
Full Size Details
French Folding
Casement Doors

Outward Opening Detail



NOTE: The preparation of Stone Sill is the same for outward or inward opening Casement Doors.

Inward Opening Detail



See sheet 16 for details of Transoms.
See sheet 8 for details of Jamb at glass line.

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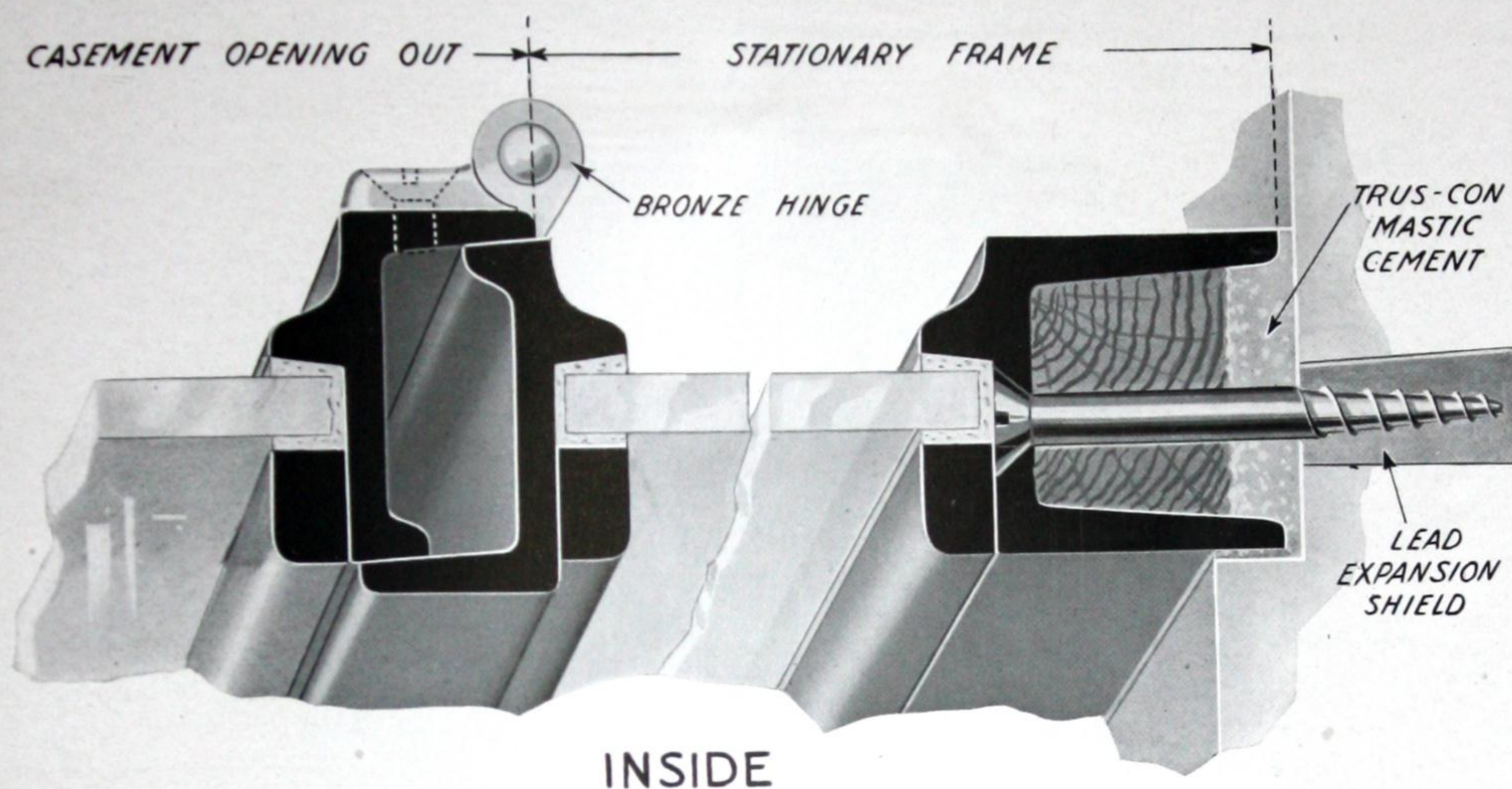
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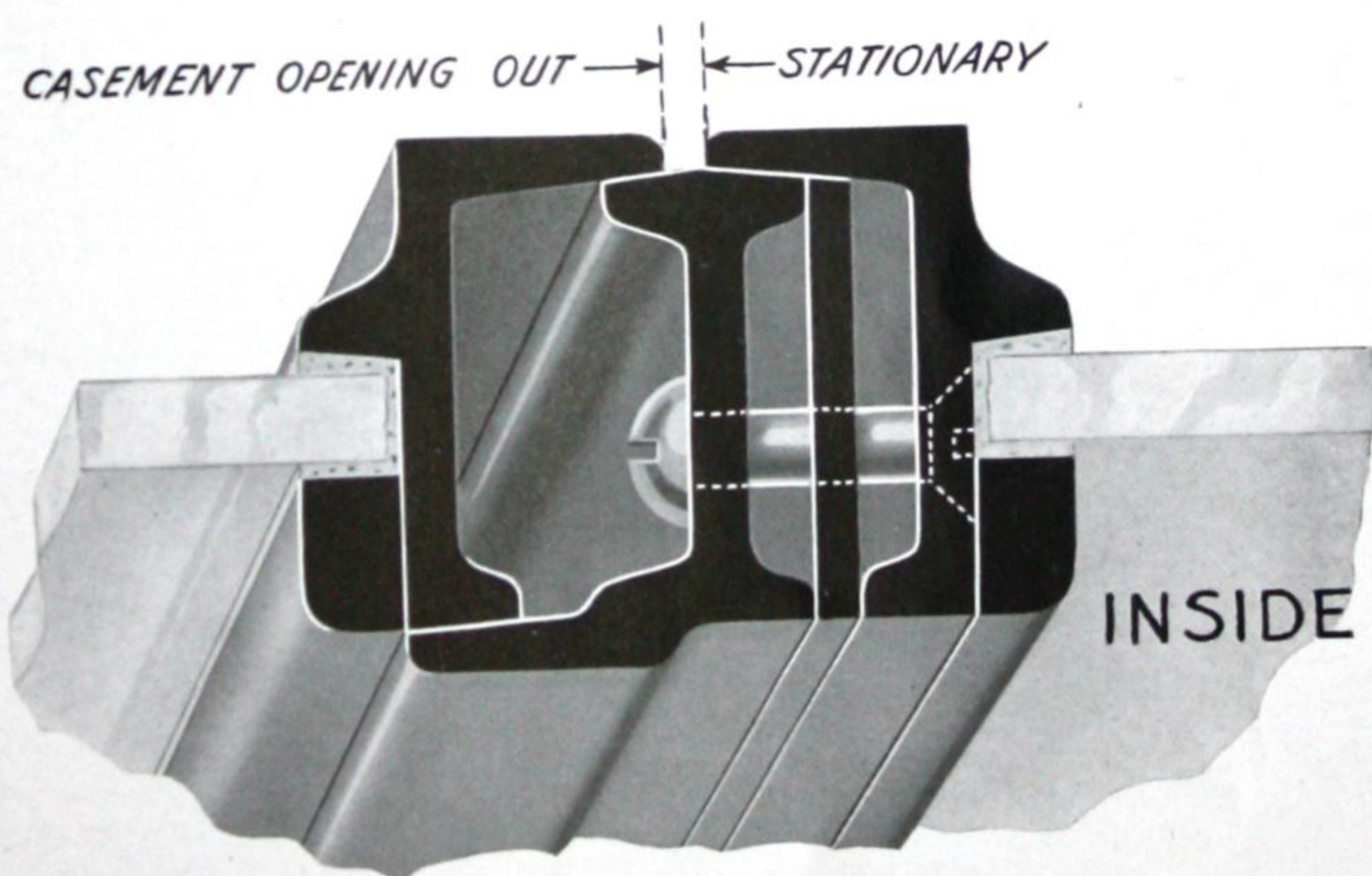
Canadian Steel Casements

Mullion Details



TYPE C MULLION

Suitable for casement windows up to 5' high with stationary frame at side.
Casement may be made to open in



TYPE D MULLION

Suitable for casement windows up to 6' 6" high or over where transom type F is used

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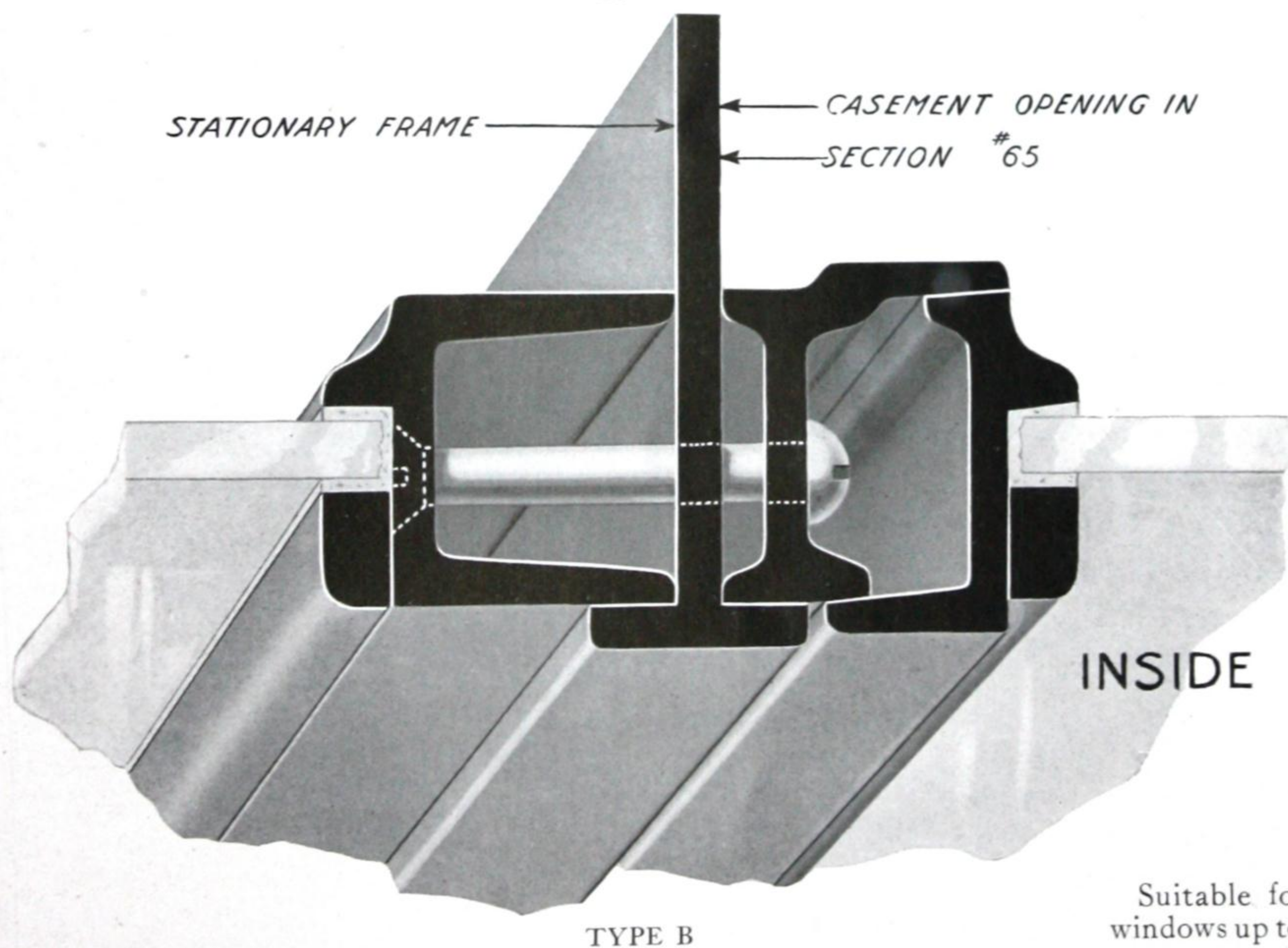
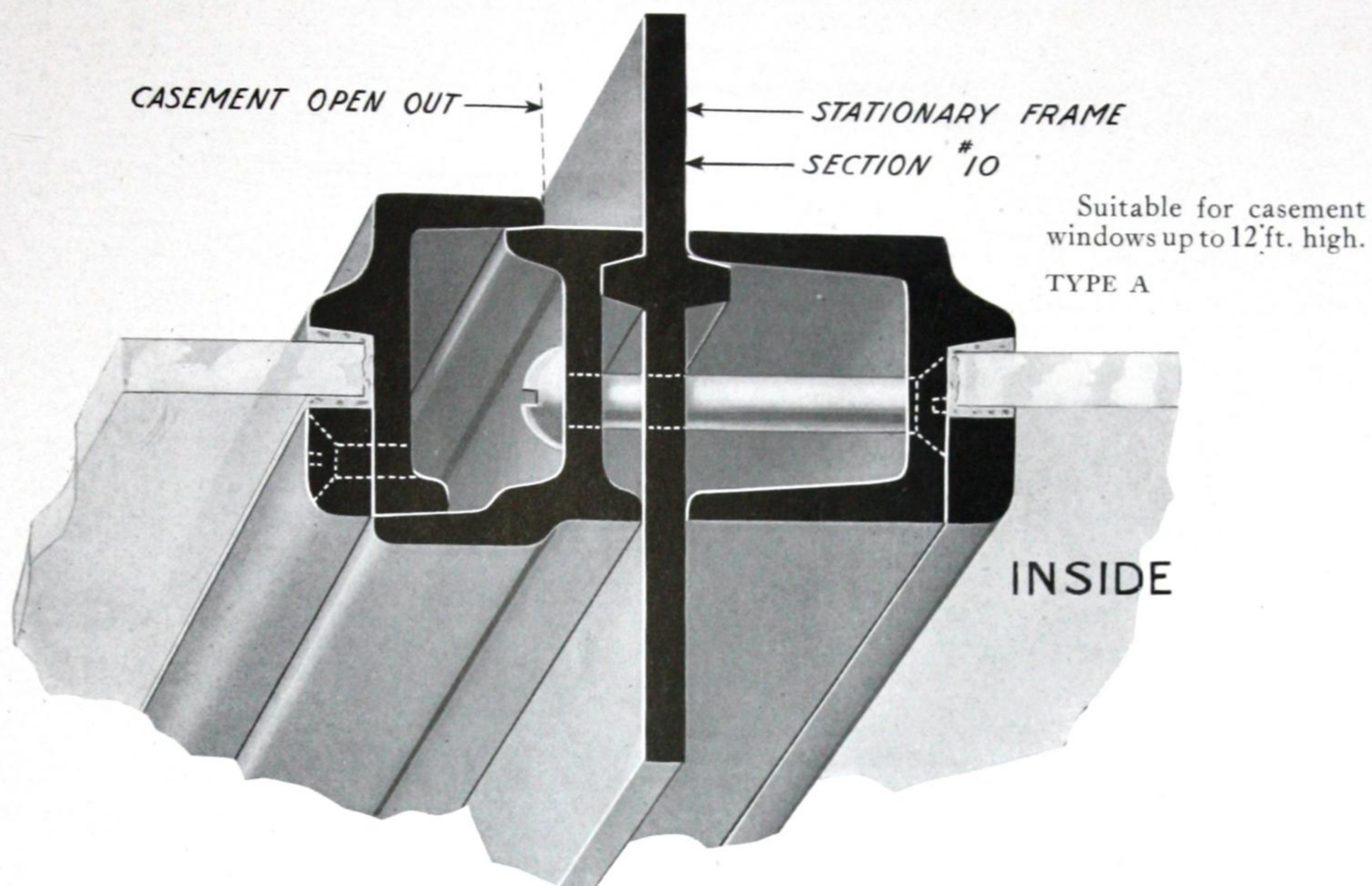
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Mullion Details



For large composite windows Architects should specify mullions not less than $2\frac{3}{4}$ " deep in order to provide sufficient lateral stiffness.

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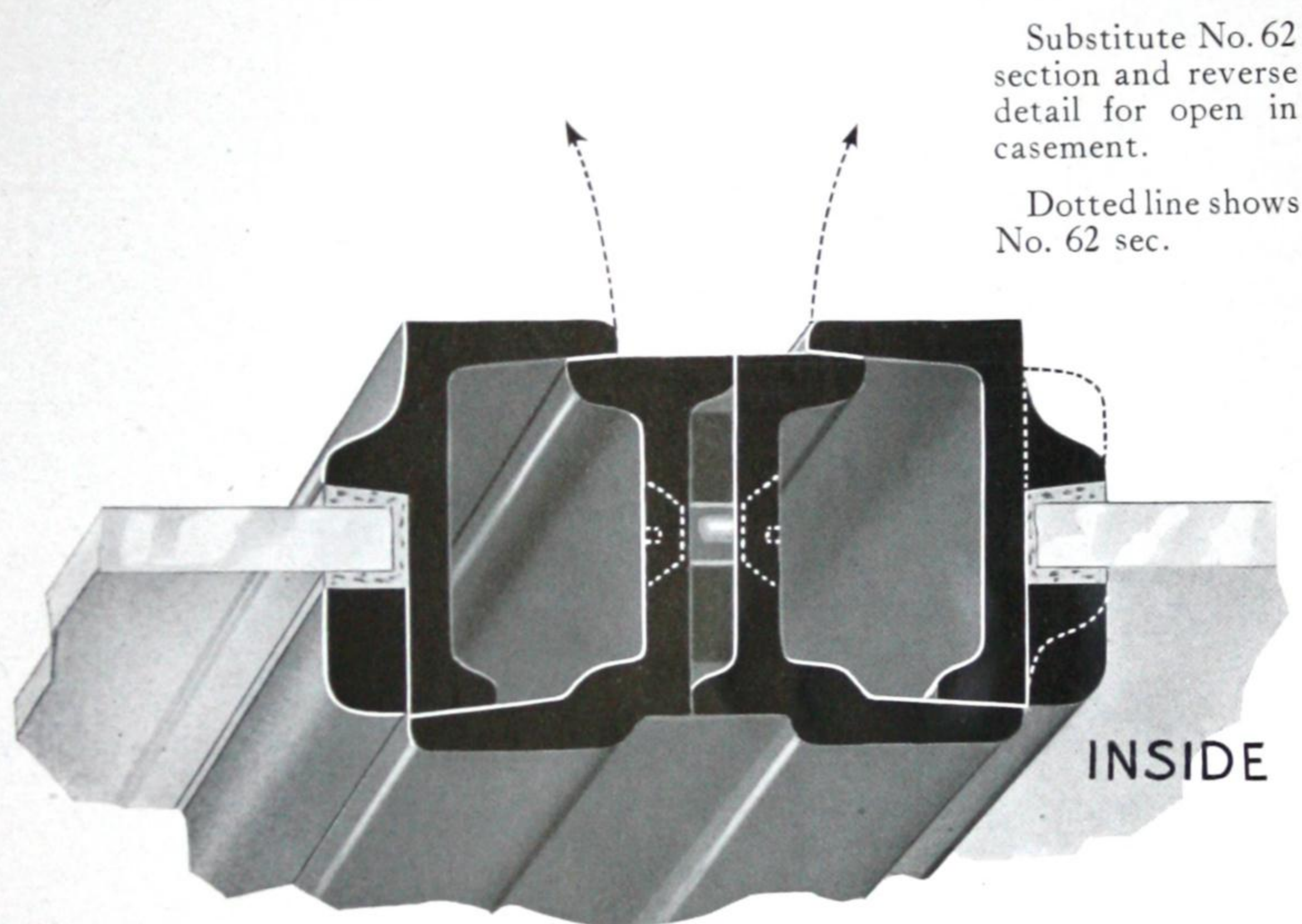
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Mullion Details



TYPE E MULLION

Fixed meeting rail for double side hinged open out casements

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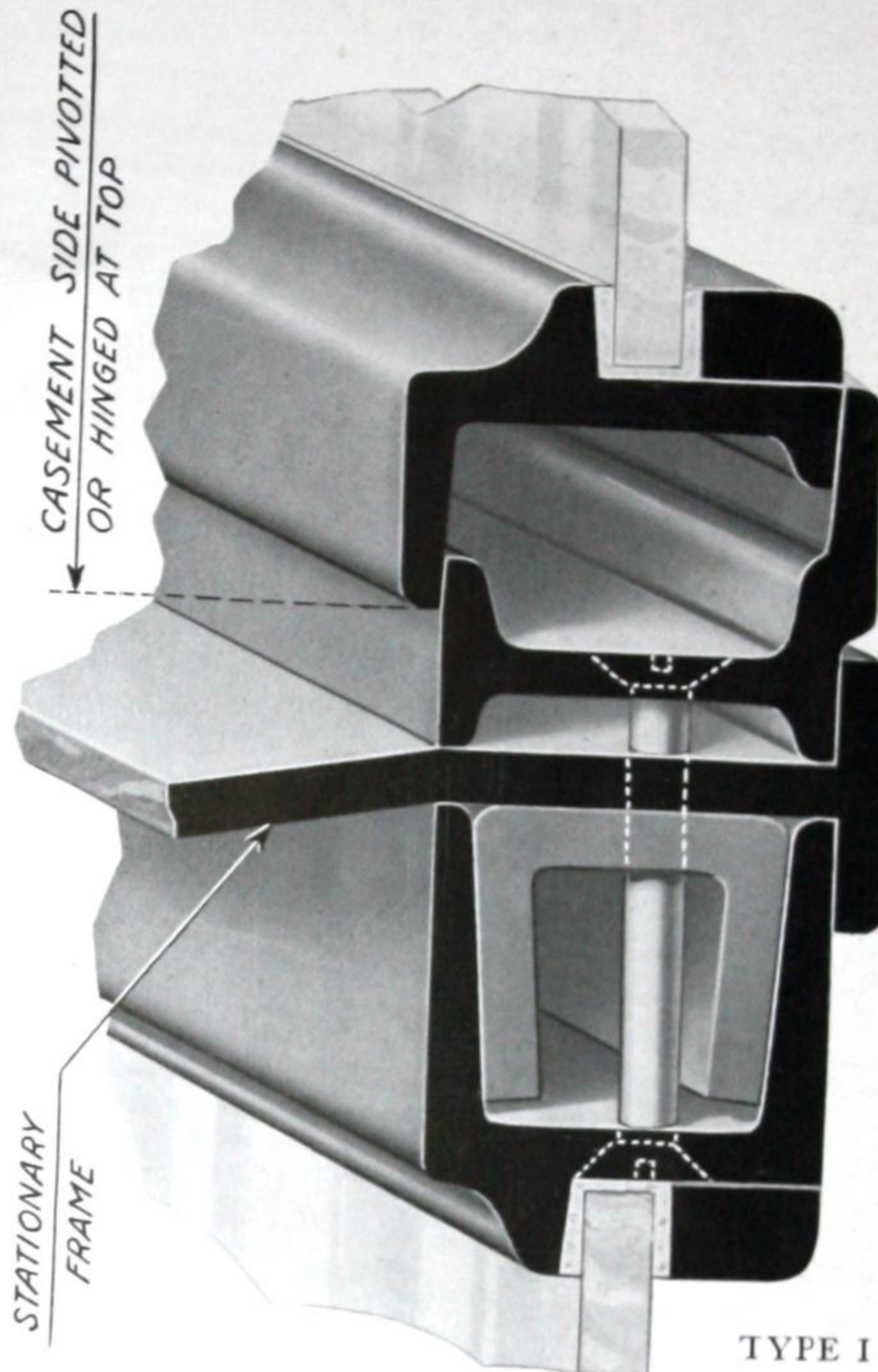
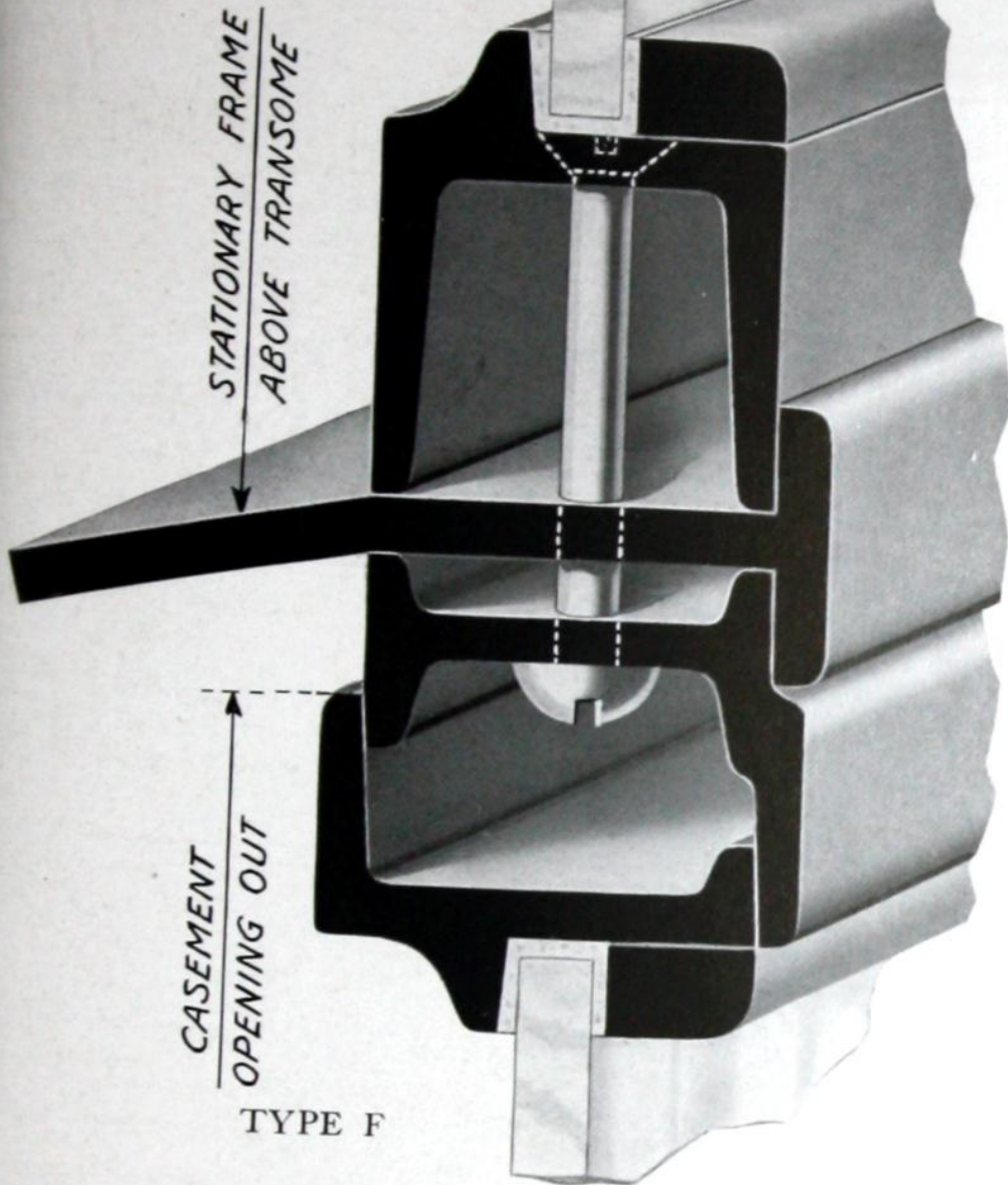
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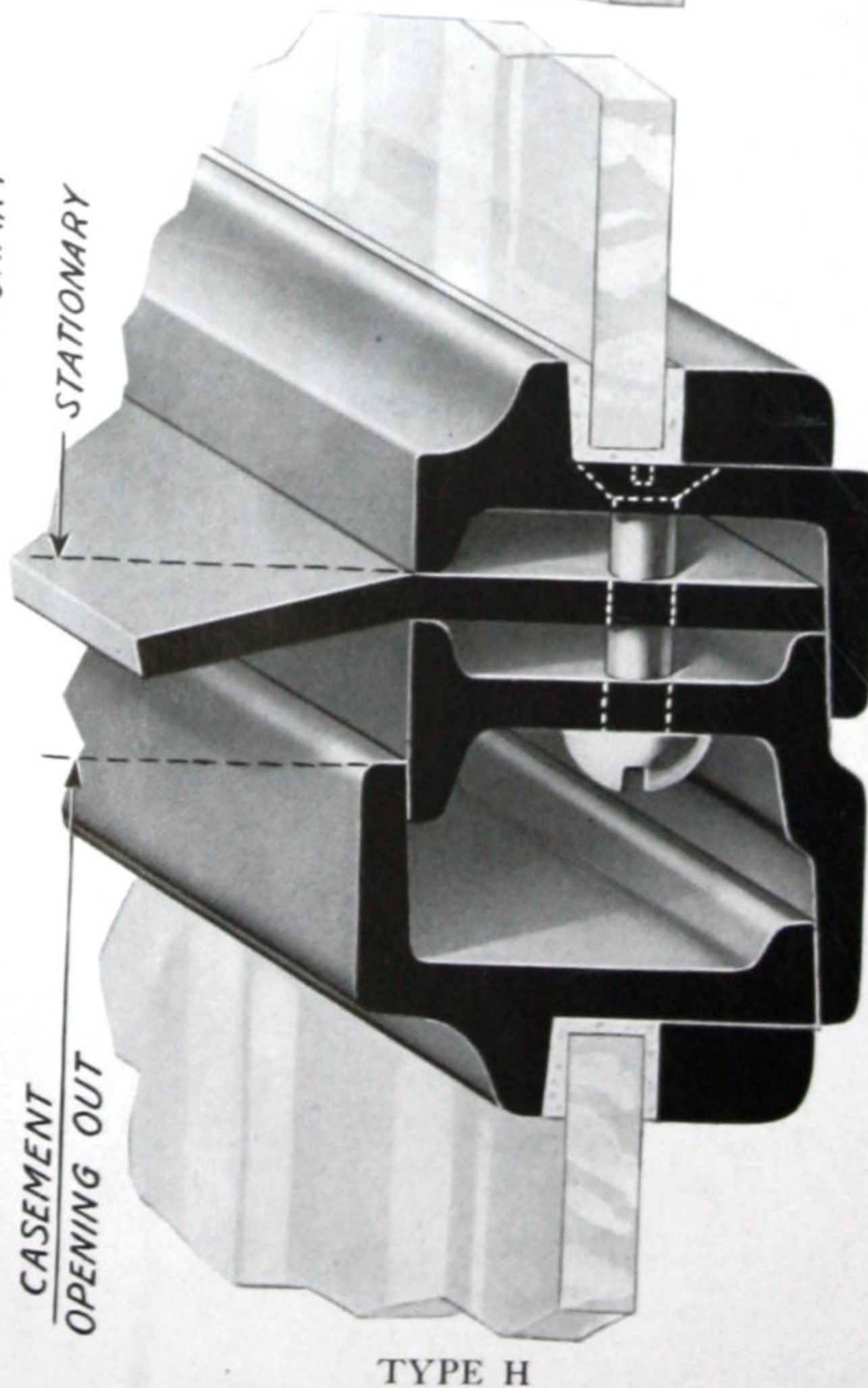
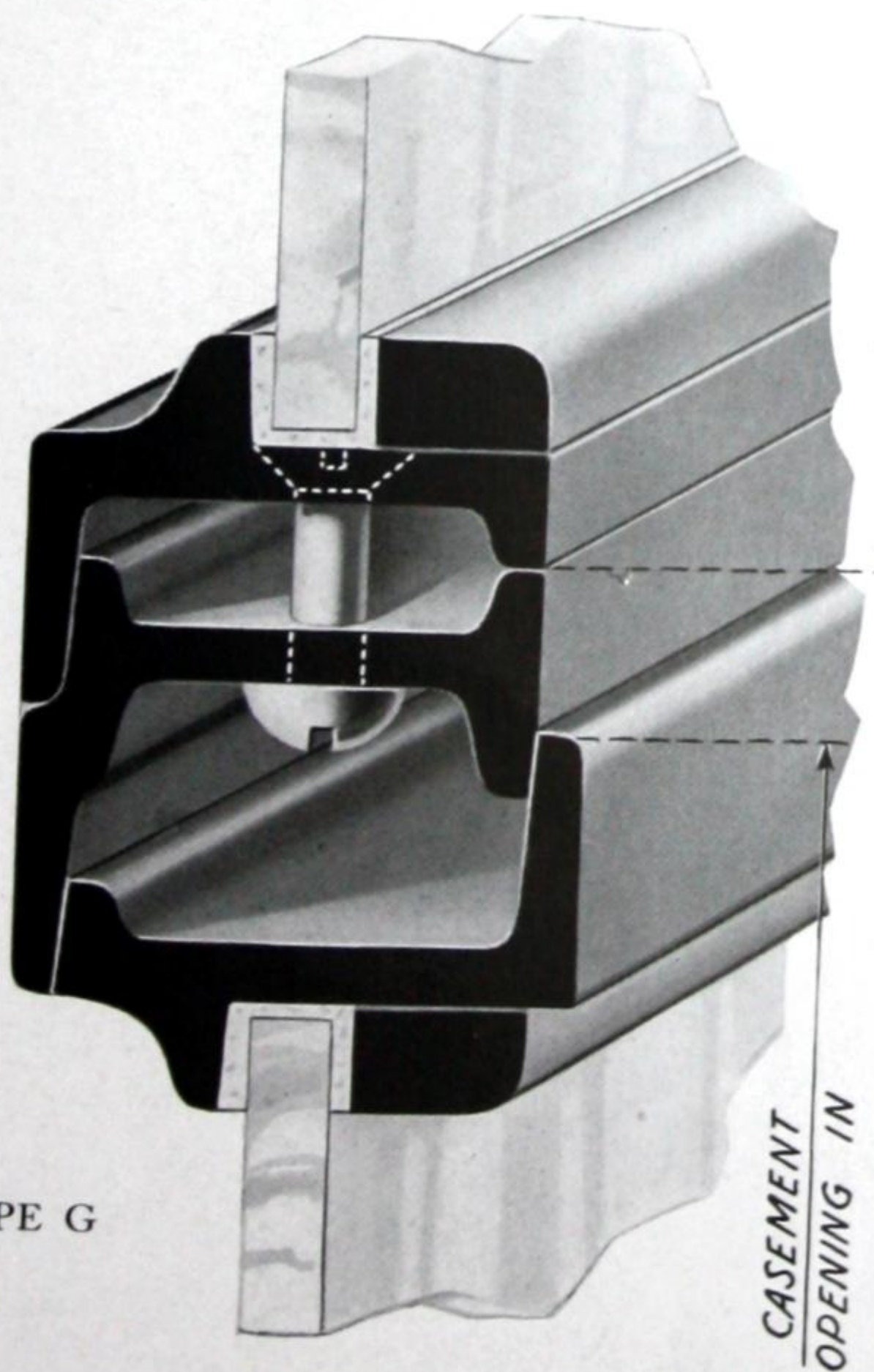
Canadian Steel Casements

Transom Details

Suitable for casement windows up to 10' wide using mullion C D & E or any width using mullion type A or B.



Suitable for casement windows up to 10' wide using mullion C D & E or any width using mullion type A or B.



Suitable for casement window up to 6' wide with mullion type D or any width using mullion A or B.

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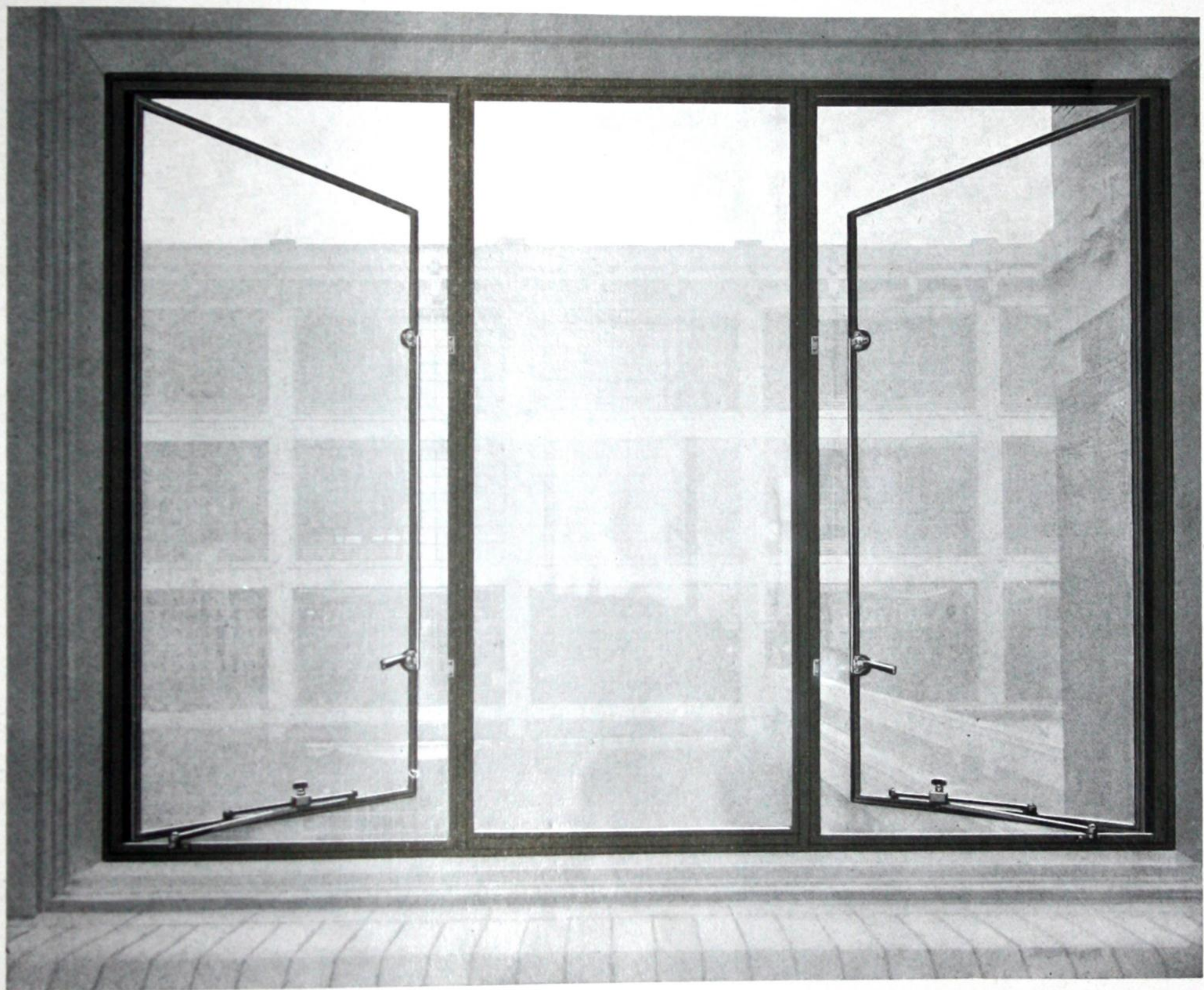
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Canadian Steel Casements

Casement Window Suitable for Office or School



8 feet wide by 5 feet high

Head Sill and Jambs as shown on sheet 7.
Mullion Type D as shown on sheet 14.

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Canadian Steel Casements

Bank Windows

Top hinged vent provided with rod and lever gear operated by bevel wheels in polished cast bronze gear box and handle. Levers of malleable iron or cast bronze. Horizontal and vertical rod brackets of cast bronze painted or polished. Rods of blued steel.



This type of gear may be extended to operate a number of vents in line either top hinged or side pivoted. It is very efficient, securely holding the casement both sides and admits of varying degrees of ventilation.

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Breakfast Room of Mr. Joseph Siegel Residence, Detroit

Mr. Albert Kahn, Architect



Exterior View of Above

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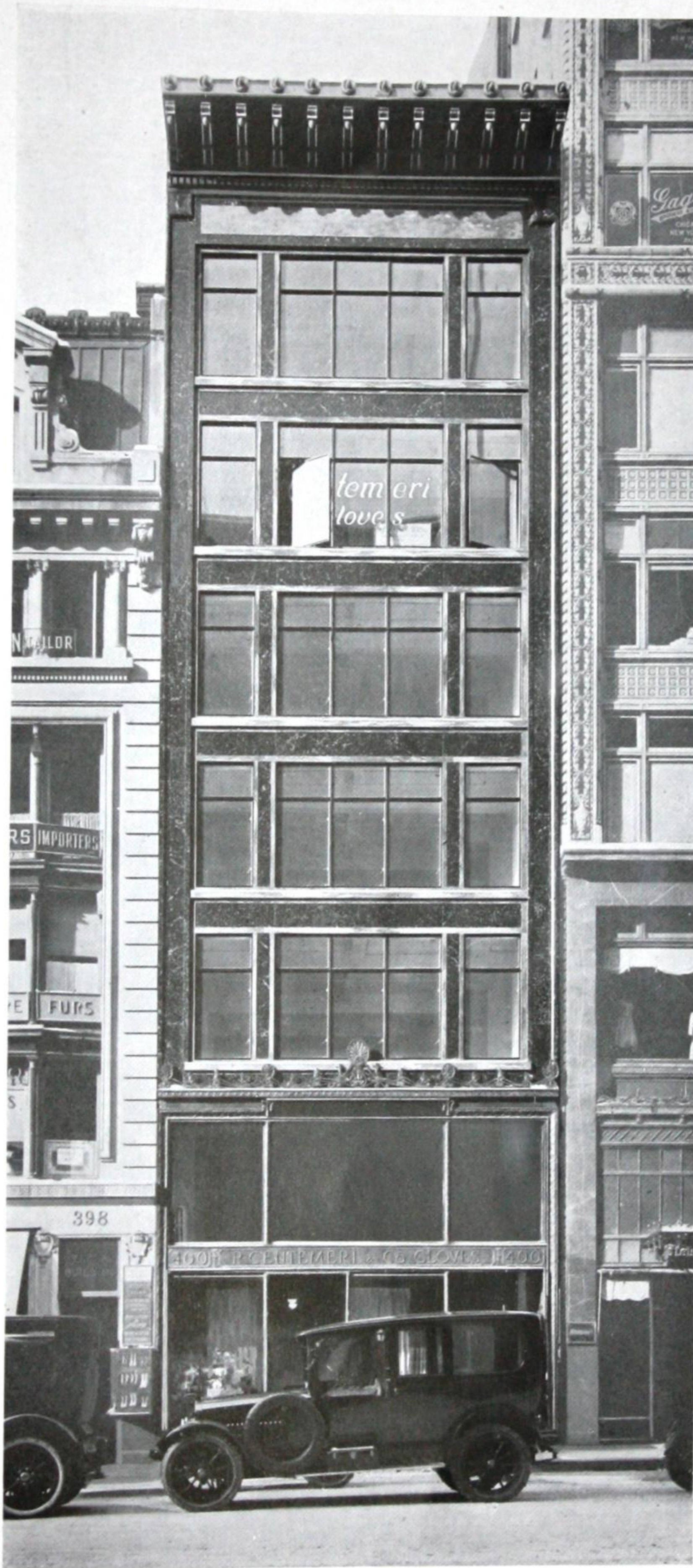
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Canadian Steel Casements

Installation at 400 Fifth Avenue, New York



Details of Head Jamb and Sill similar to sheet 8.
Details of Mullions similar to Type B sheet 15.
Details of Transom similar to Type F sheet 17.

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Installation at Lynchburg National Bank
Lynchburg, Va.



Alfred C. Bassom, Architect, New York

Windows 9' 0" x 22' 0" with two side pivoted vents in each, fitted with twin screw gear operated by bevel wheel gear box and handle of polished cast bronze.

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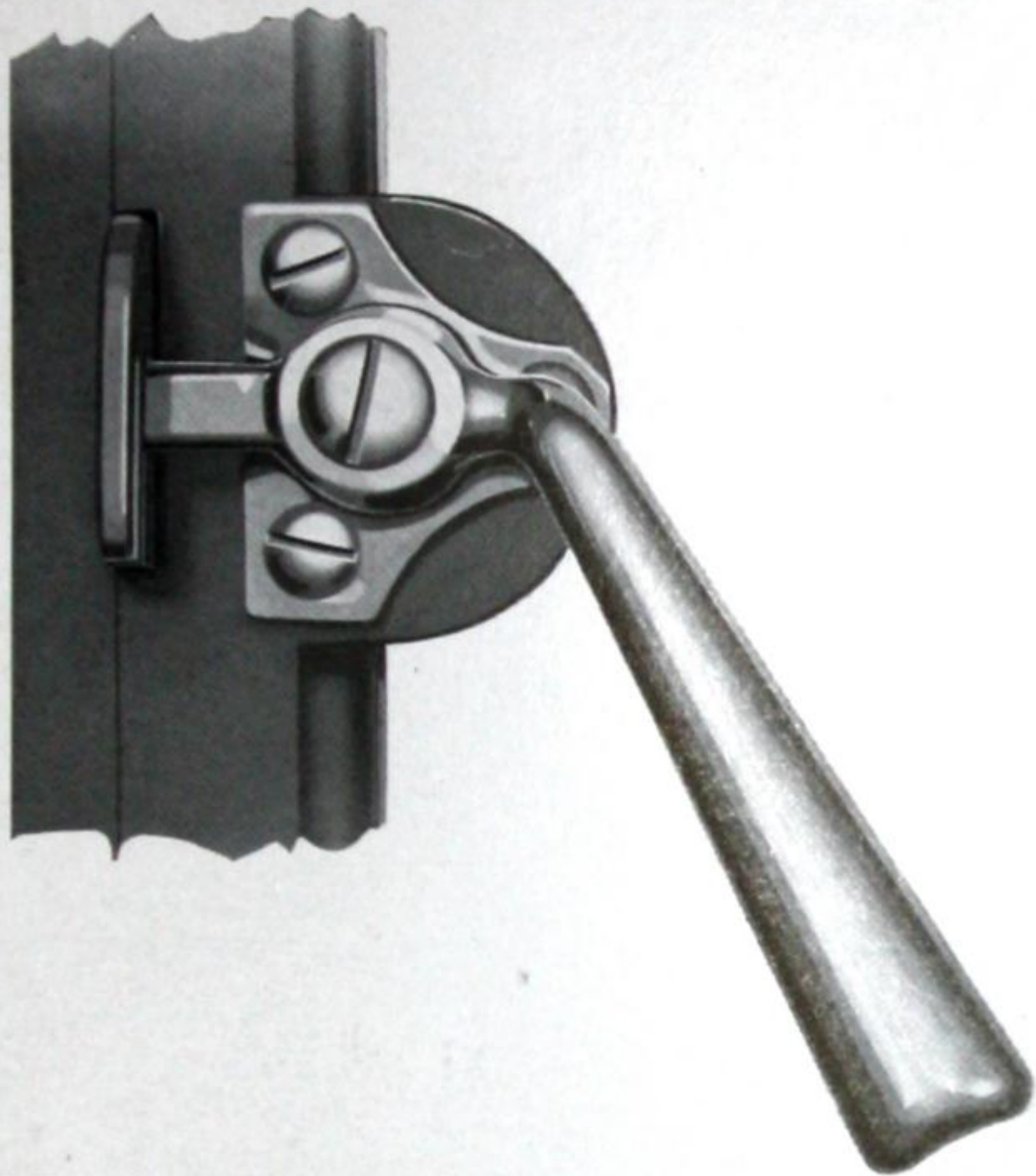
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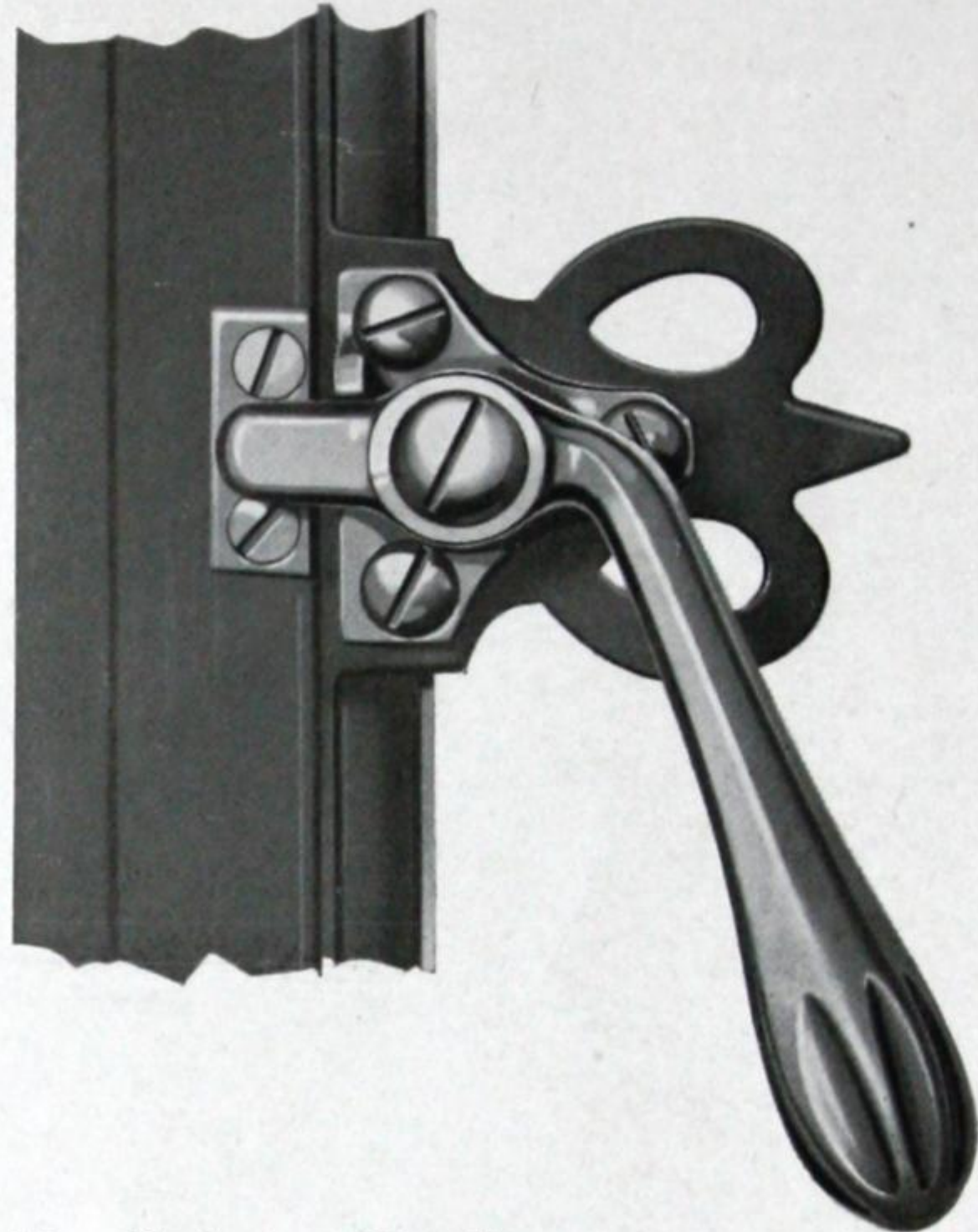
Canadian Steel Casements

Casement Hardware Standard Handles

All quotations are based on using No. 50 design. Handle on plain plate unless other designs are specified. No. 50 design is shown applied to inward opening casement, all others to outward opening. The spur of handle and catch plates are beveled to draw the opening frame tight against the fixed frame. Handles are mounted on bronze triangle plate with bronze stud. The boss of handle is counterbored and contains strong auxiliary spring to prevent the handle dropping after the casement is opened, thus avoiding the possibility of damage to handle or casement when closing.



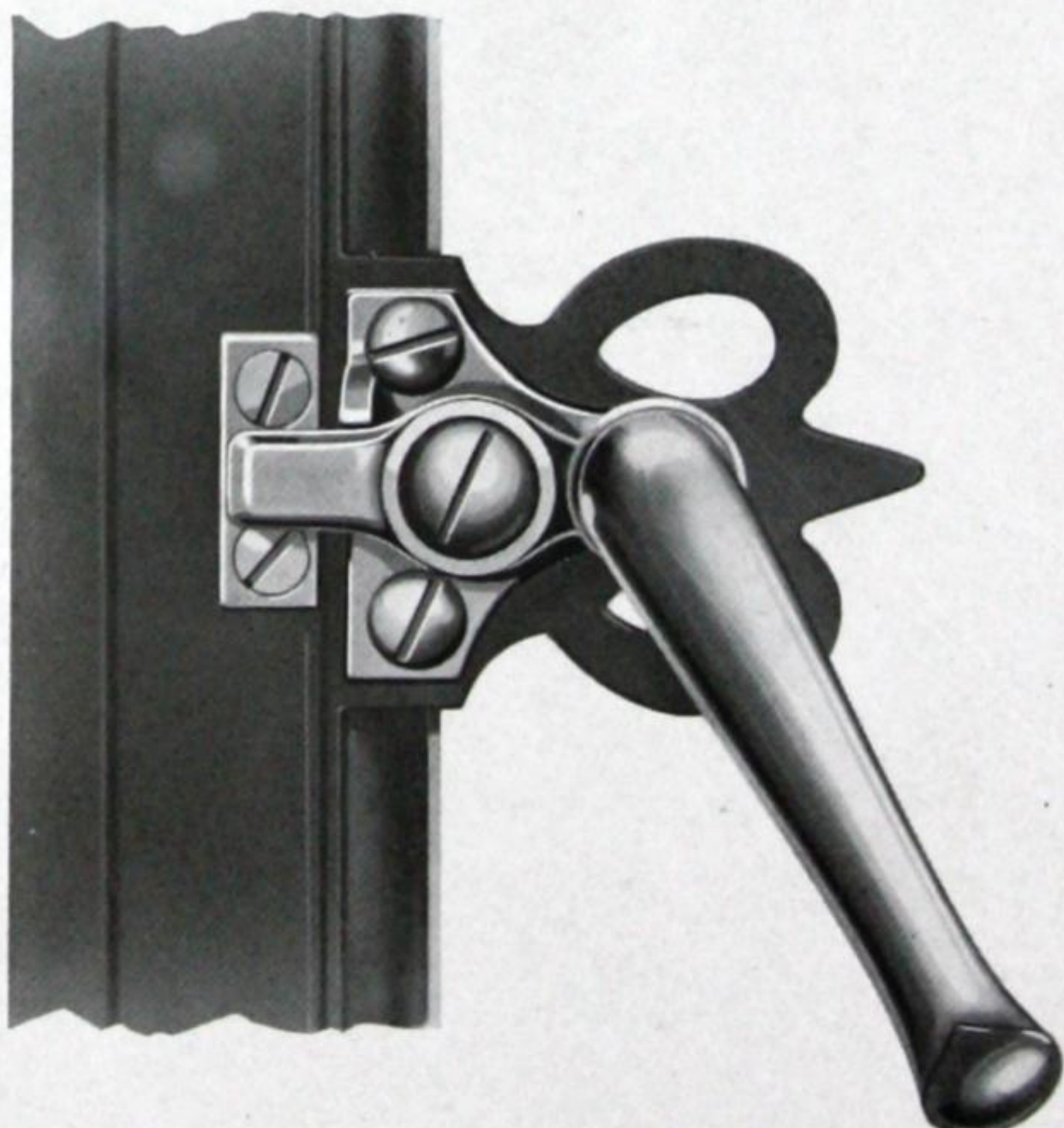
No. 50 design Handle on plain plate supplied in Cast Bronze or Malleable Iron.



No. 51 design Handle on ornamental plate supplied only in Cast Bronze.



No. 52 design Handle on ornamental plate supplied only in Cast Bronze.



No. 55 design Handle on ornamental plate (for side hinged casements) supplied only in Cast Bronze.

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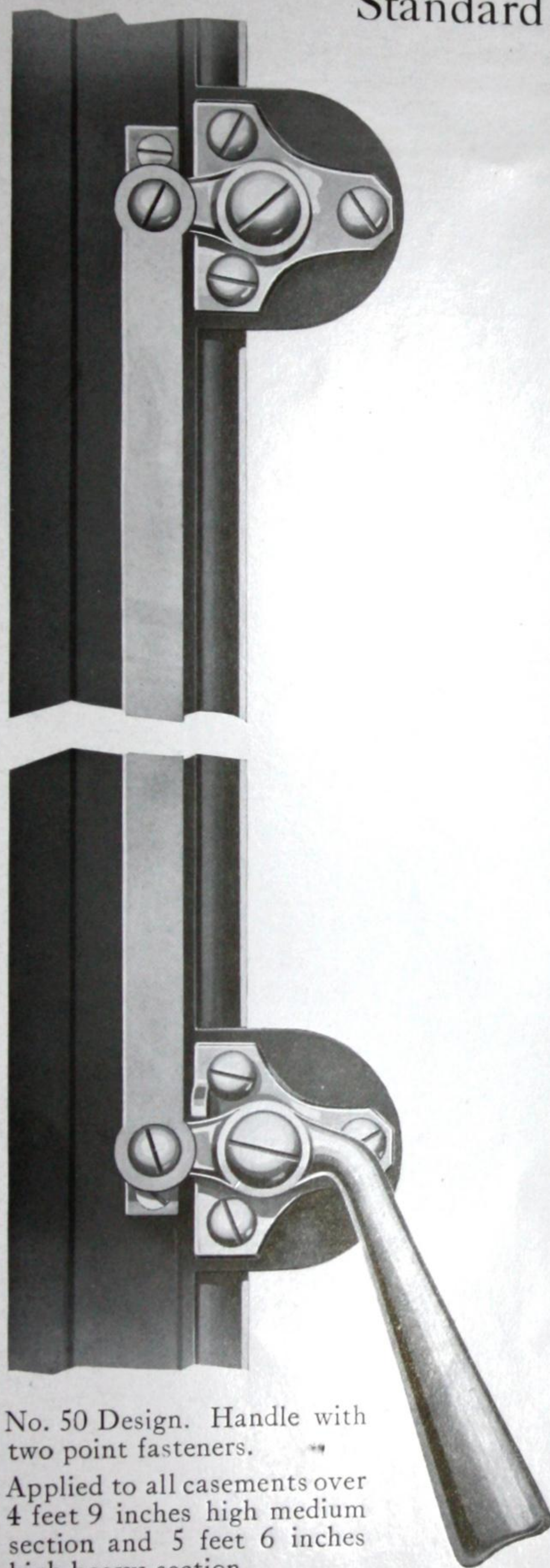
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Canadian Steel Casements

Casement Hardware

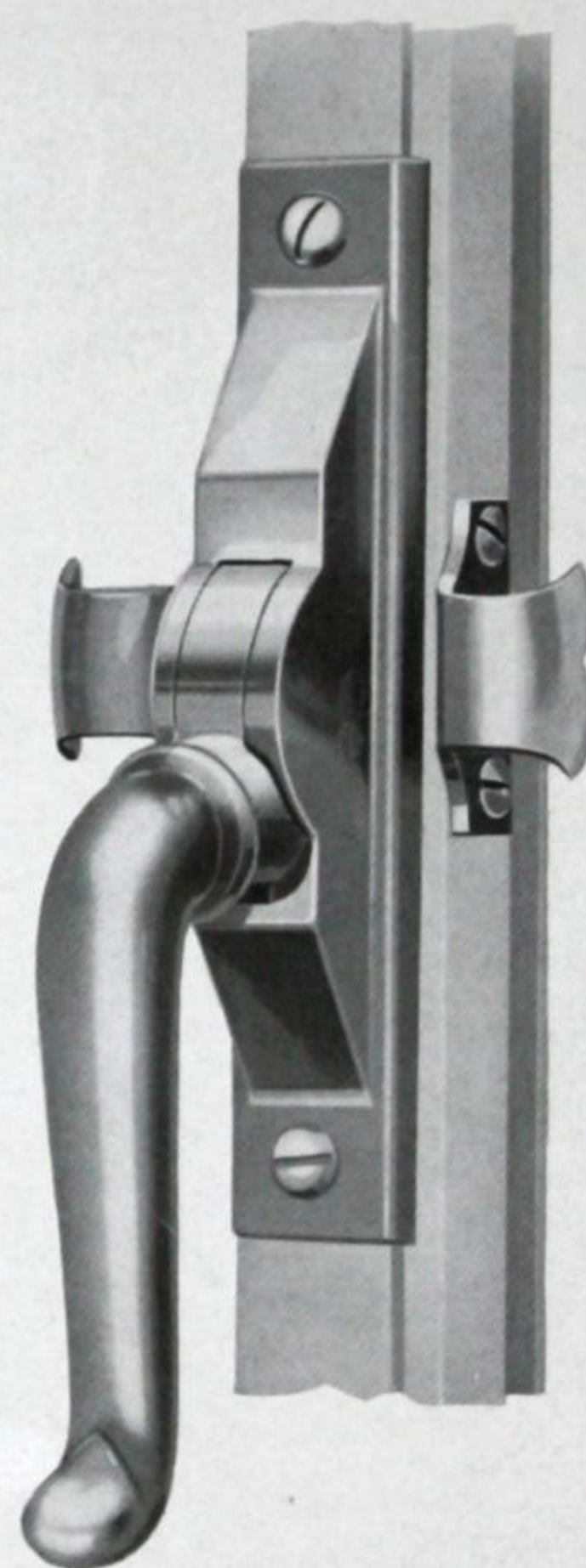
Standard Handles



No. 50 Design. Handle with two point fasteners.

Applied to all casements over 4 feet 9 inches high medium section and 5 feet 6 inches high heavy section.

All designs of handles can be provided with this arrangement.



No. 55 design Handle, box, and finger catches operating concealed, sliding (Cremorne) bolt for French folding inward or outward opening casements and doors. Supplied only in cast bronze.

For detail showing application of bolts see sheet 25.

This type of hardware can be applied to single side hinged inward opening casement, provided clearance is made for hand at jamb.

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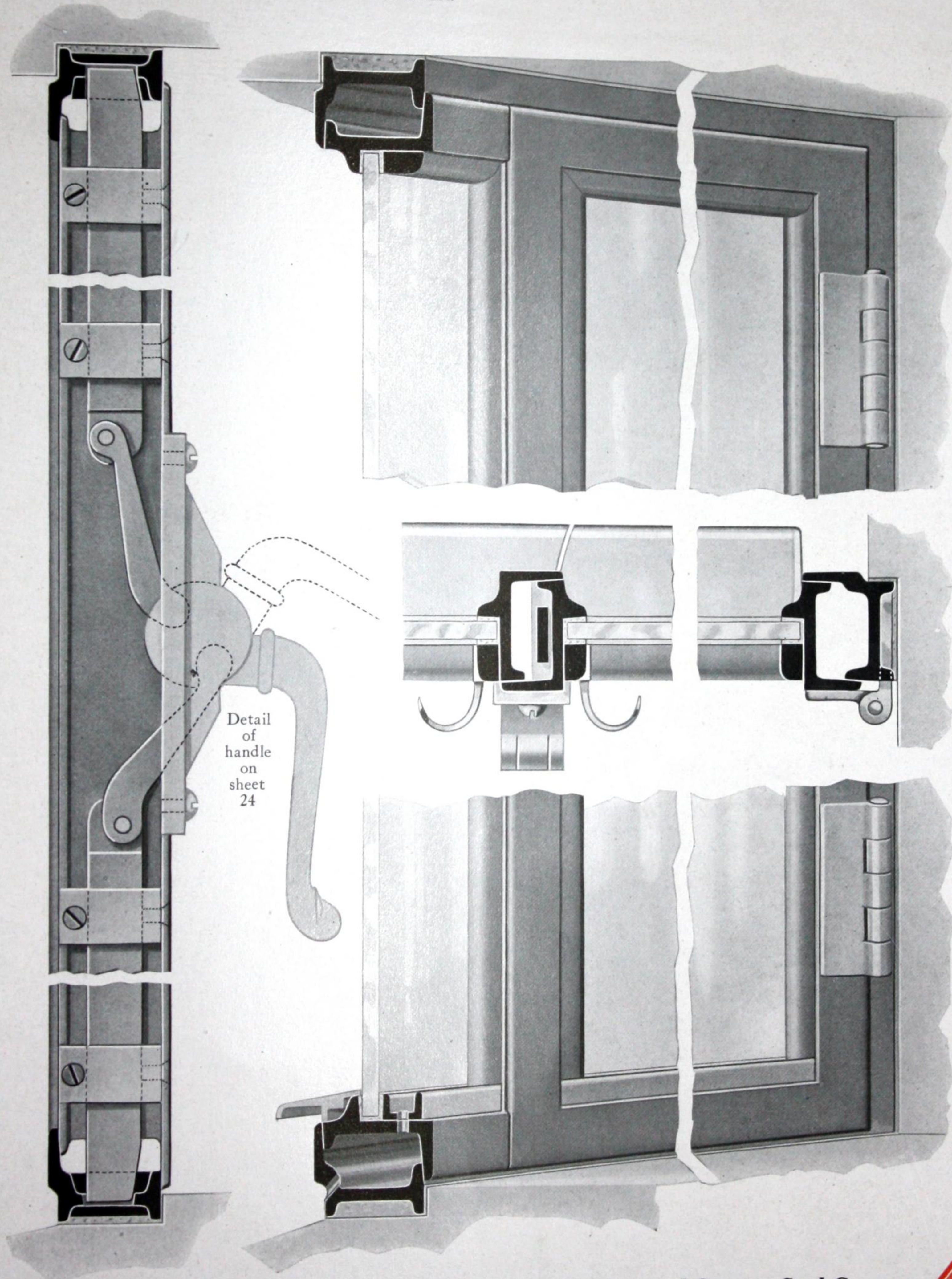
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Concealed Sliding (Cremorne) Bolt

Illustration shows French folding casements, opening "in" fitted with our *concealed* sliding (Cremorne) bolts locking casements top and bottom. The handle No. 55 design, box and finger catches are of solid cast bronze, guides of bronze and bolts sherardised steel. This method of concealing the bolts has not hitherto been adopted by other casement makers. It will be seen that same is very neat, no spurs, hooks or plates showing on the face of casements and therefore a very desirable feature where cleaning and polishing is to be avoided. It also presents less projections or surfaces for the accumulation of dust and dirt.



Sections accurately shown half full size.

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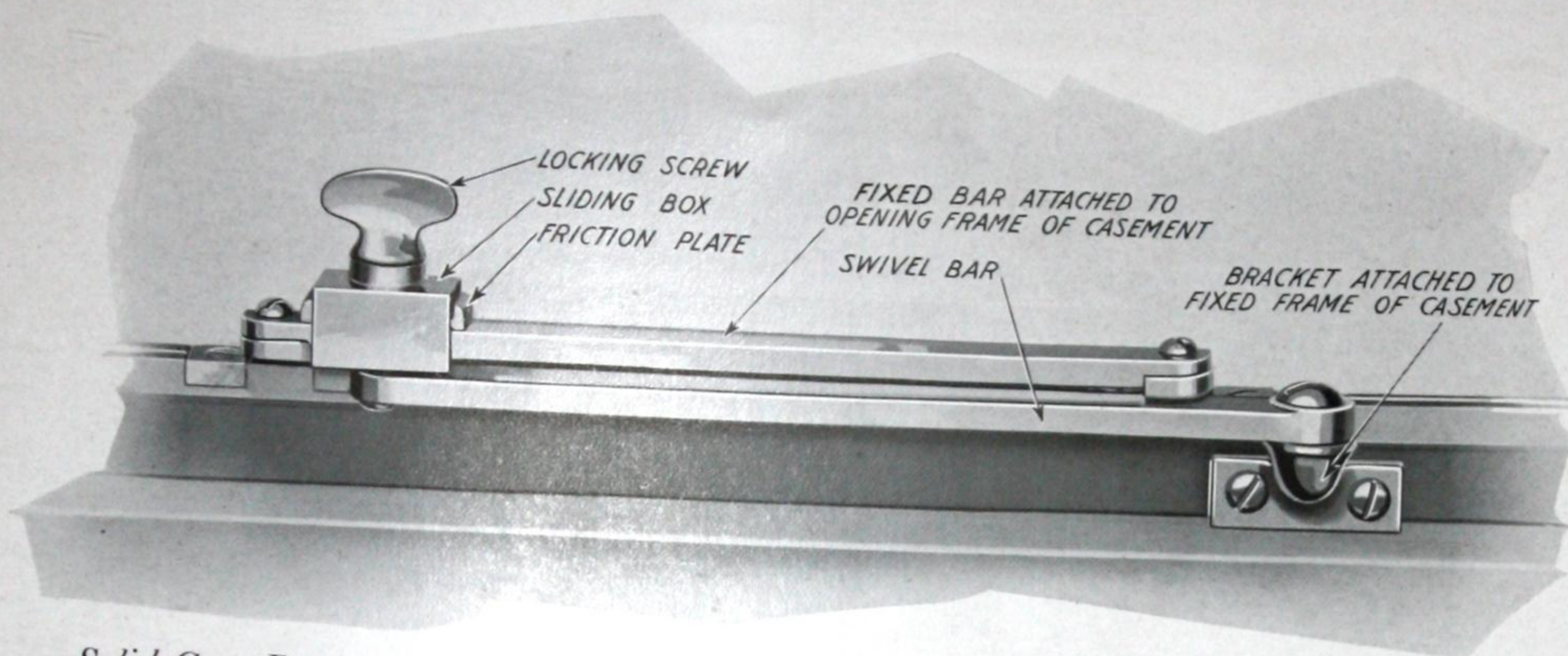
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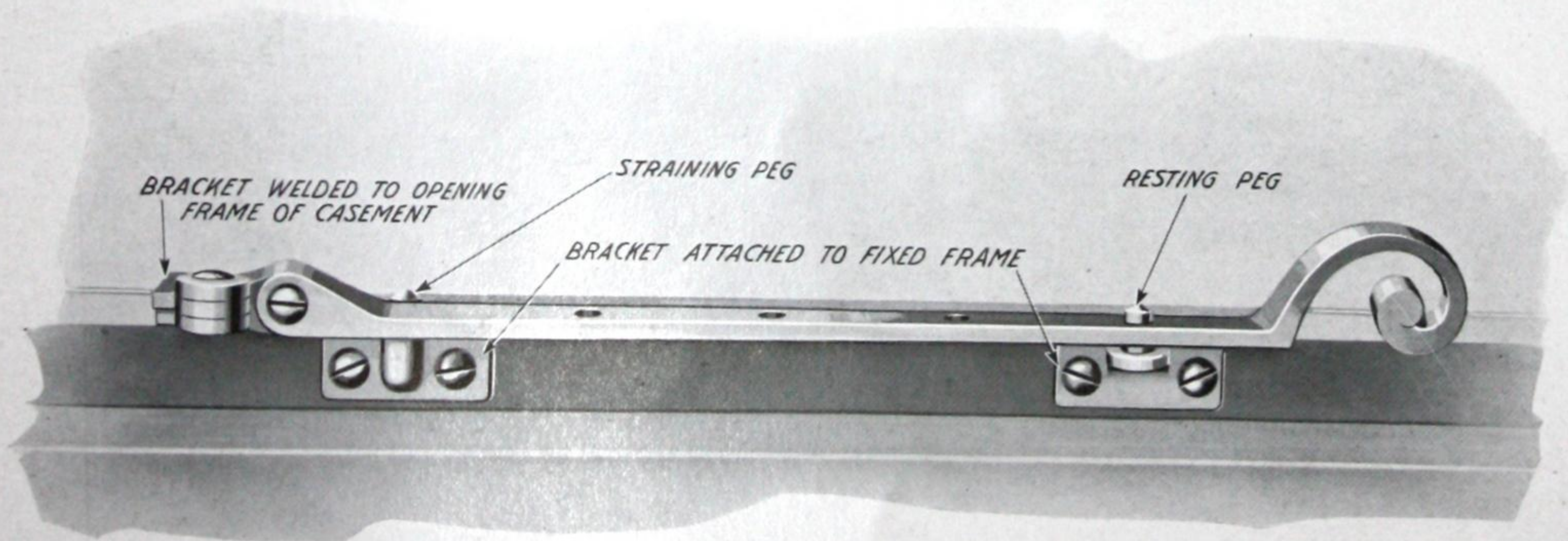
Canadian Steel Casements

Casement Hardware Standard Adjusters and Peg Stays



Solid Cast Bronze Non-projecting Sliding Adjuster for side hinged open in or out and vertically pivoted casements.

NOTE: The slight projection above casement frame.



Solid Cast Bronze or Malleable Iron Peg Stay for side hinged open in or out and vertically pivoted casements; also for top hinged and side pivoted casements, where within reach.

Note. The straining peg is required only on top hinged or side pivoted casements.

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Casement Hardware Spring Catches and Side Arms

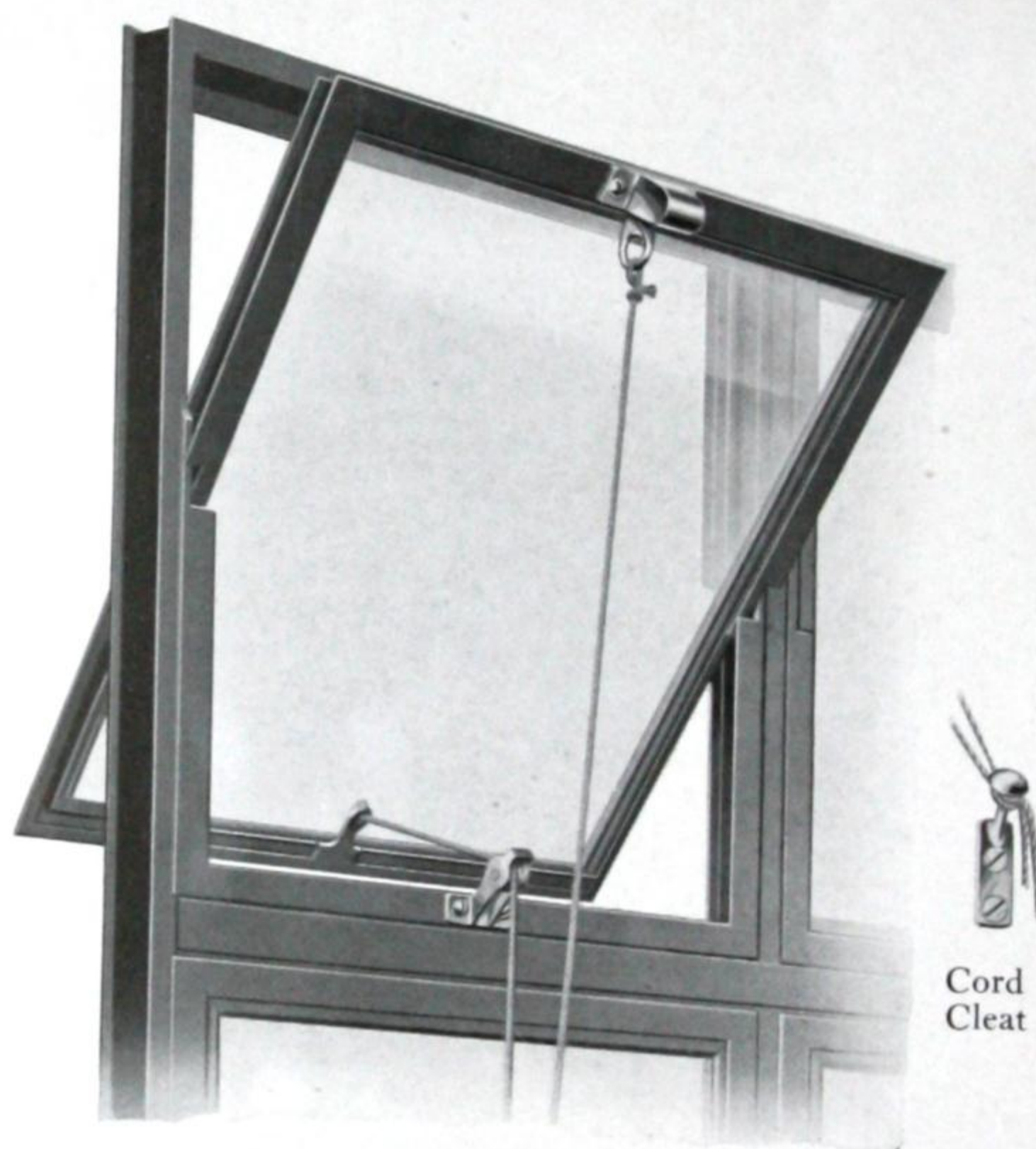
The spring catches are constructed on entirely new and original lines, are compact and do not project below the sight line of frame. The holdfast or trigger is arranged to catch behind the leg of fixed frame, no striking or catch plate is necessary. Unlike many types of spring catches it is unnecessary to cut away the plaster at head to allow same to work satisfactorily.



Spring catch and side arms for bottom hinged casement

Illustration shows bottom hinged transom light fitted with brass concealed side arms and polished cast bronze spring catch operated by cords. By a simple arrangement the side arms may be detached from the guides and the vent dropped down for cleaning the outside of glass and also the outside of side lights.

If cords are not desired this catch may be operated with a window stick.



Spring catch pulley and eye for side pivoted casement

Illustration shows side pivoted transom light fitted with polished cast bronze spring catch, pulley bracket and eye for cord operation. Cords being secured to cleat.

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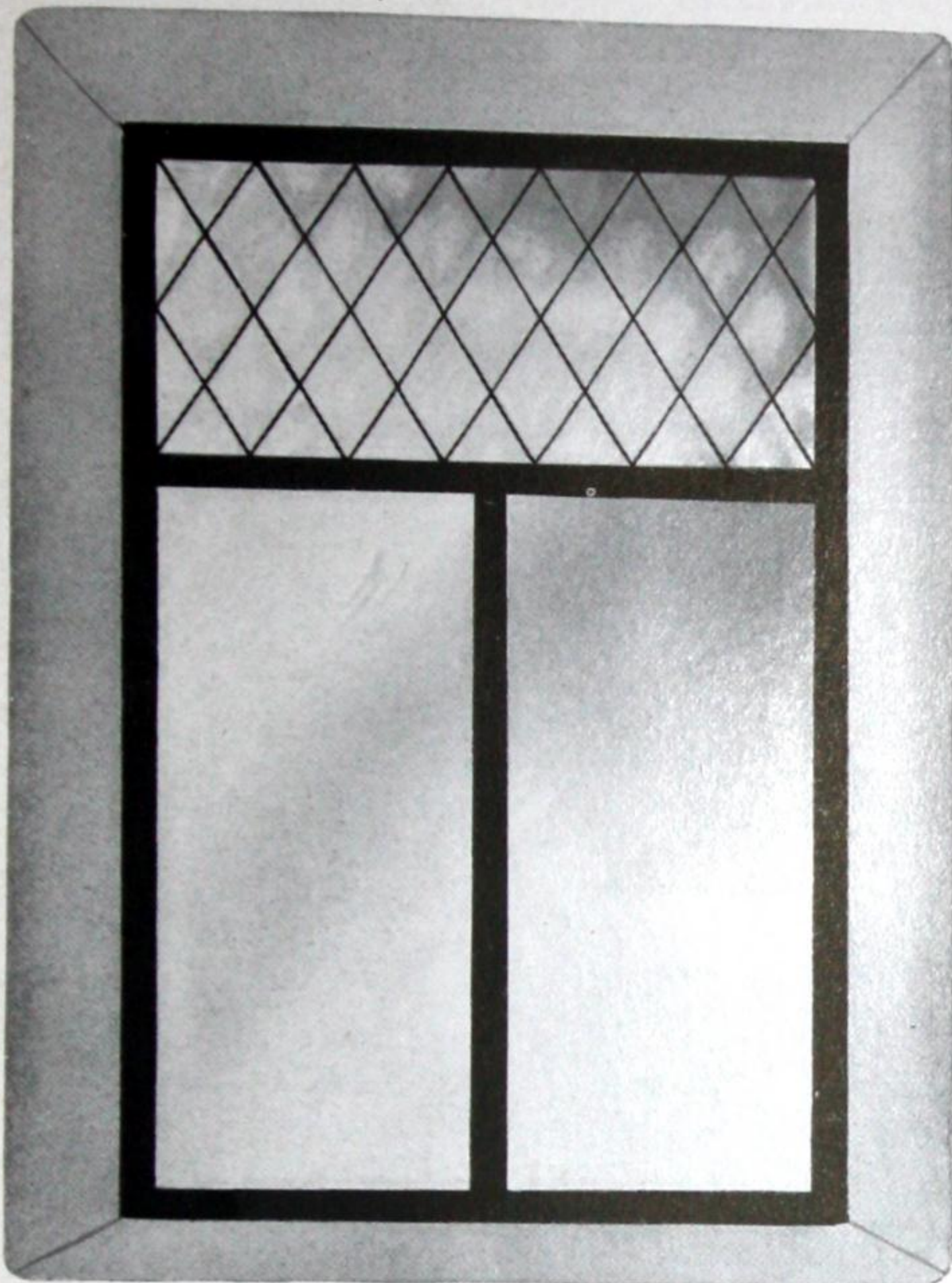
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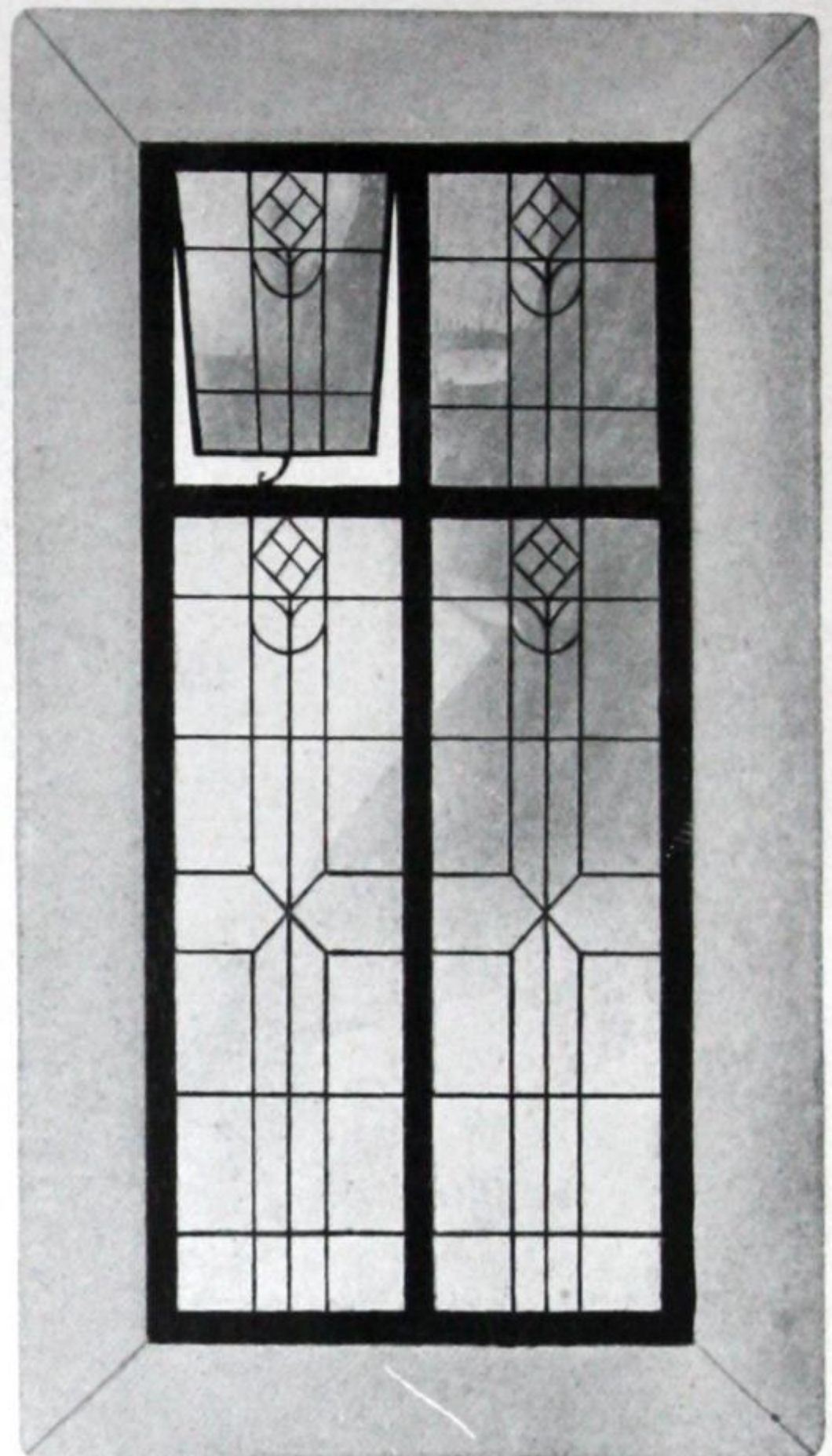
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Canadian Steel Casements

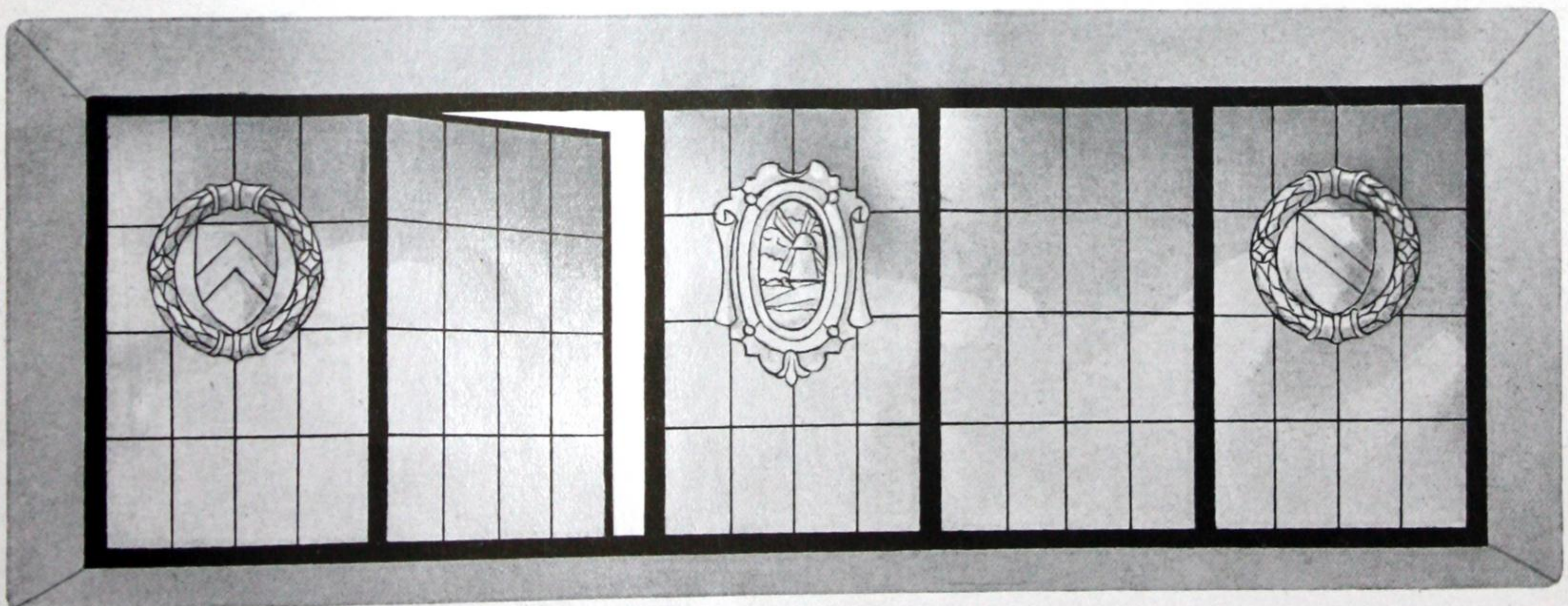
Examples of Lead or Zinc Bar Glazing



Design 502



Design 503



Design 504

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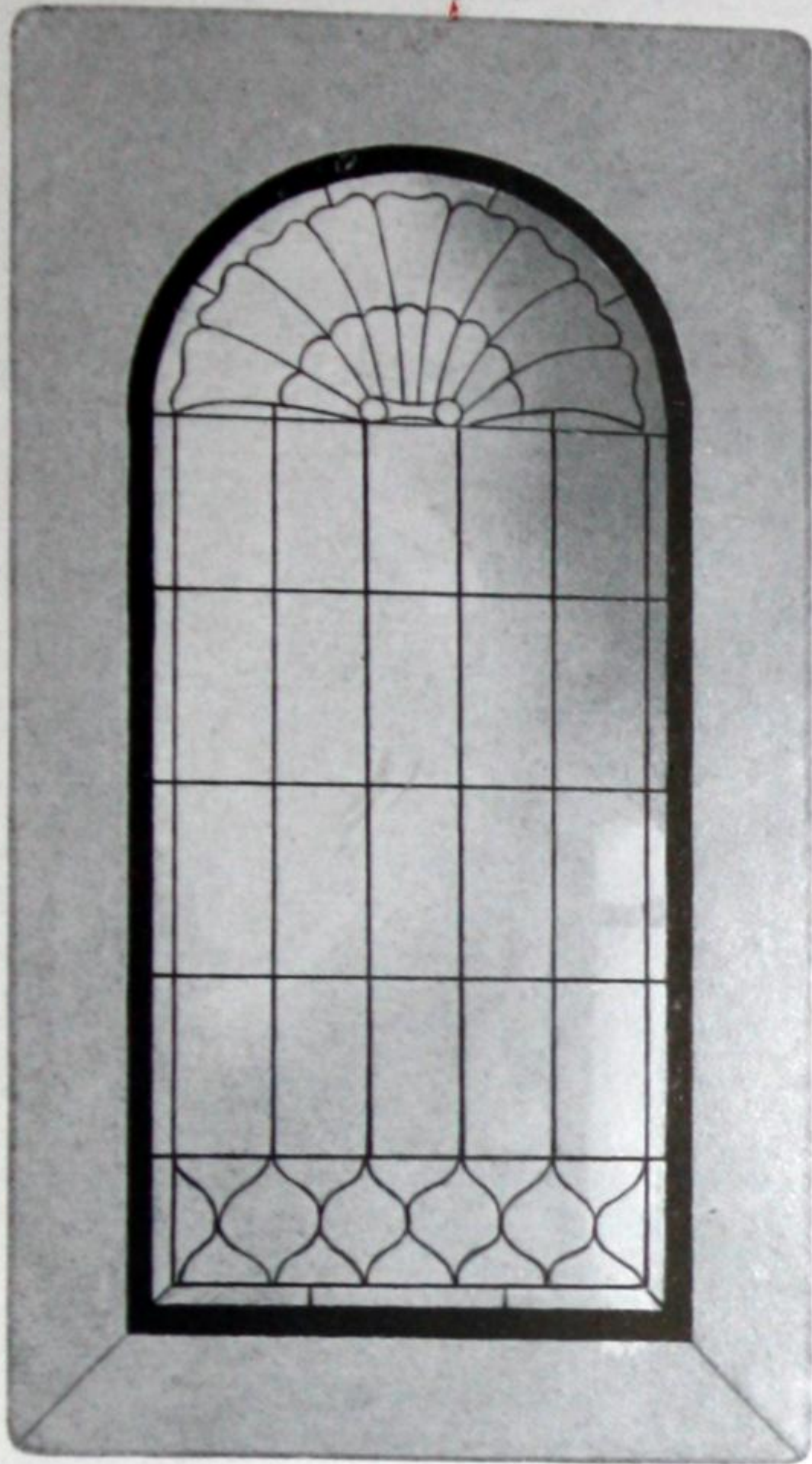
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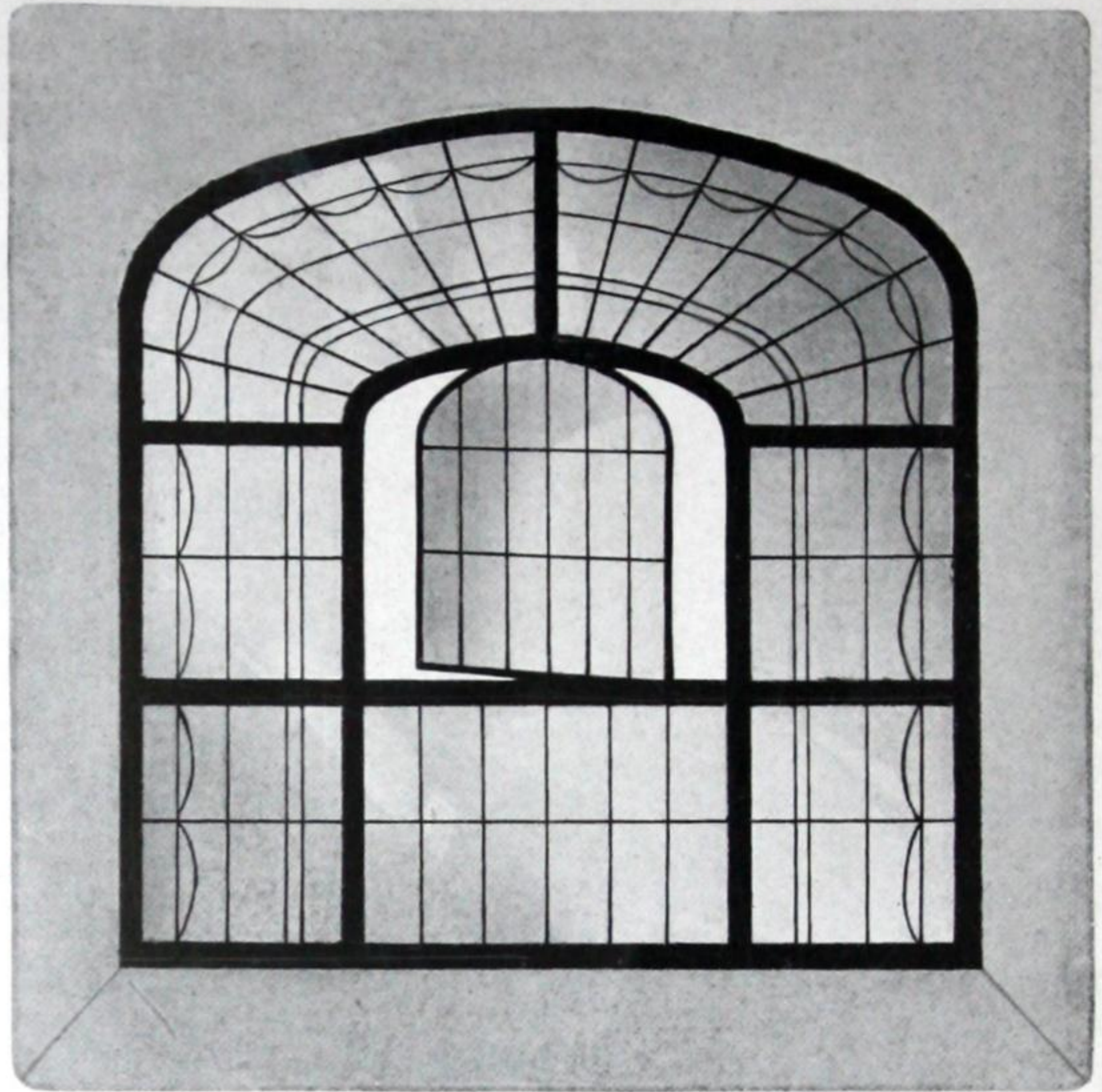
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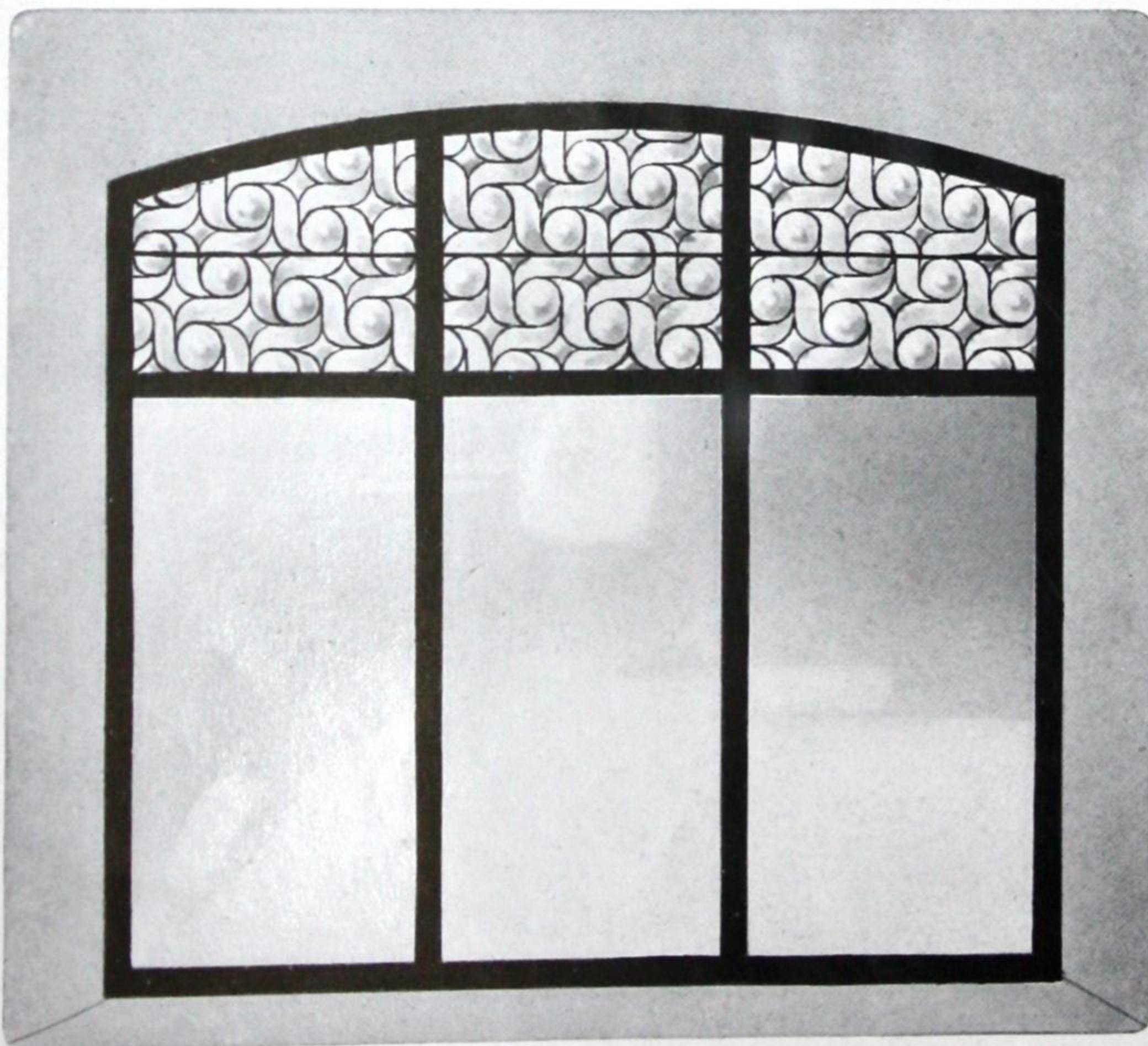
Examples of Lead or Zinc Bar Glazing



Design 501



Design 506



Design 507

Quotations will be gladly furnished on request for lead or zinc bar glazing to any of the foregoing designs, or architect's own designs.

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Canadian Steel Casements

Instructions for Glazing

We advise the use of $\frac{1}{4}$ inch plate glass for all large casements in one pane, that is, casements without muntin bars. A litharge putty or putty containing 10% gold size must be used, as ordinary glaziers' putty will not set hard in steel frames. Before fixing the glass see that the opening frame sets properly against the stationary frame all round and swings clear at sill.

The glass must be cut perfectly square and not too small, an allowance of 1-16 inch all round being sufficient. Back putty the rebates before offering in the glass. Place the glass in the opening and insert glazing clips, and then to ensure the frame working freely and with proper clearance at sill, wedge up the glass with small pieces of wood, placing one between the edge of the glass and rebate close to the lower hinge, and one at the top close to the shutting rail as shown in sketch. This is absolutely necessary to prevent the opening frame sagging with the weight of glass and allow same to open and close properly.

Where metal beads are provided the above instructions must also be carried out except that glazing clips and front putty will not be required. Putty, however, should be packed in between the glass and bead after beads are screwed on.

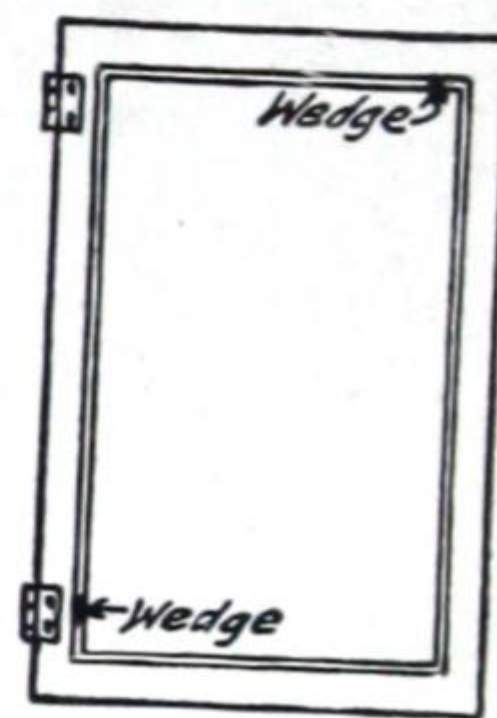
The above instructions with regard to wedging glass apply only to casements hinged at side.

Vertical centre hung casements should have the wedges close to centre at top and bottom to equalize the space between edge of glass and rebate.

Large sheets of glass should always be supported on wood or other suitable packing at bottom in whatever type of frame it is set. It must not be allowed to ride on the steel section.

Unless these instructions for glazing are thoroughly carried out, casements cannot be expected to swing freely or be weather tight.

Glass sizes will be gladly furnished on request.



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Canadian Steel Casements

Installation at Union National Bank Cleveland

Approximate dimensions 9' 6" x 24' 0"



Architects, Walker & Weeks, Cleveland

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